



**UNIVERSITY OF MYSORE**

**Yuvaraja's College (Autonomous)**

*(A Constituent Autonomous College of The University of  
Mysore)*

JLB Road, Mysuru – 570005

**Competitive Cellular Interactions Dictate Epithelial Defence  
Against Cancer (EDAC) in Breast Cancer**

*A Dissertation Presented By*

**AKSHAR A**

**YMB18201**

Submitted to the Department of Molecular Biology  
For the partial fulfilment of the requirements of the degree of

**M.Sc. in Molecular Biology (Integrated)**

*Under the Guidance of*

**Dr. Medhavi Vishwakarma**

Assistant Professor

Centre for BioSystems Science & Engineering

Indian Institute of Science, Bengaluru

*Submitted to the*

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

*(A Constituent Autonomous College of The University of  
Mysore)*

JLB Road, Mysuru – 570005

**August 2023**



UNIVERSITY OF MYSORE  
Yuvaraja's College (Autonomous)  
Mysore -570005



## DEPARTMENT OF MOLECULAR BIOLOGY

### CERTIFICATE

This is to certify that **Mr. Akshar A**, Reg. No. **YMB18201** has carried out the project work entitled "**Competitive Cellular Interactions Dictate Epithelial Defence Against Cancer (EDAC) in Breast Cancer**" at the Indian Institute of Science, Bengaluru in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23, is based on the studies carried out by him under the guidance and supervision of **Dr. Medhavi Vishwakarma**, Assistant Professor at the Centre for BioSystems Science and Engineering at the Indian Institute of Science, Bengaluru

Place: Mysuru

Date: 30 August 2023

*Demant, M.S.  
12/9/2023*

**Course Coordinator**  
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Department of Molecular Biology  
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*+ Principal 25/9/23*

**Principal**  
Principal  
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### Examiners

*Demant, M.S.  
25/9/2023*

*Ayeda Hajira*



**Indian Institute of Science**  
**Centre for BioSystems Science and Engineering**



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**CERTIFICATE BY THE GUIDE**

This is to certify that the project entitled "**Competitive Cellular Interactions Dictate Epithelial Defence Against Cancer (EDAC) in Breast Cancer**", is a bonafide research work carried out by **Mr. Akshar A**, for partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) degree of the University of Mysore is based on the studies carried out by him during the period from May - August 2023, under my guidance and supervision. It is further certified that this dissertation / or any other part thereof has not been submitted elsewhere for any other degree.

Date: 8<sup>th</sup> September 2023

Place: Indian Institute of Science, Bangalore

*Medhavi Vishwakarma*

**Medhavi Vishwakarma**  
Assistant Professor  
Centre for Biosystems Science and Engineering  
Indian Institute of Science  
Bengaluru, India 560012



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**



**Mysore – 570005**

***“Drosophila melanogaster* neuromuscular junction as a model to study presynaptic autophagy”**

**A Project Report submitted in  
Partial fulfillment of the  
Requirement of the Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted by*

**ANANYA M**

**YMB18202**

*Under the Guidance of*

**Prof. RAVI MANJITHAYA**

**Professor**

**Molecular Biology and Genetics Unit**

**Jawaharlal Nehru Centre for Advanced Scientific Research,  
Jakkur, Bangalore**

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
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**Mysore – 570005**

**August 2023**



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Yuvaraja's College (Autonomous)  
Mysore – 570005



DEPARTMENT OF MOLECULAR BIOLOGY

**CERTIFICATE**

This is to certify that **Ms. ANANYA M**, Reg. No. **YMB18202** has carried out the project work entitled "***Drosophila melanogaster* neuromuscular junction as a model to study presynaptic autophagy**" at the Molecular biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysuru

Date: 12/9/2023

*Demuthi M.S.*  
12/9/2023  
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25/9/23  
**Principal**  
**Principal**  
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**Examiners**

*Demuthi M.S.*  
25/9/2023  
*[Signature]*



Jawaharlal Nehru Center for Advanced Scientific Research

(Autonomous Body under the Department of Science & Technology, Government of India)

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Bengaluru 560 064, INDIA

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+91 (80) 2208 2767

## CERTIFICATE

This is to certify that the project entitled ***Drosophila melanogaster*** **neuromuscular junction as a model to study presynaptic autophagy** submitted by Ms. ANANYA M, in partial fulfillment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of the University of Mysore, is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation/any other part thereof has not been submitted elsewhere for any further degree.

**Place:** Bengaluru

**Date:** 05-09-2023

(Prof. Ravi Manjithaya)

**Project Guide**

Molecular Biology & Genetics Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P.O., Bangalore-560 064



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore – 570 005**



**“Establishing secretion of recombinant proteins in *E. coli* using a novel peptide”**

**A Project Report submitted in  
partial fulfillment of the  
requirement of the Award of**

**M.Sc. in Molecular Biology (Integrated)**

**Submitted by  
DINAKAR HL  
YMB18203**

**Under the Guidance of  
Dr. Sanjay Ghosh  
Senior Assistant Professor  
Institute of Bioinformatics & Applied Biotechnology  
Electronic City Phase 1,560100**

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)**  
**Mysore – 570 005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore – 570 005**



**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Mr. Dinakar HL**, Reg. No. **YMB18203** has carried out the project work entitled '**Establishing secretion of recombinant proteins in *E. coli* using a novel peptide**' at the Department of Synthetic Biology, IBAB, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of the University of Mysore during the academic year 2022-23.

Place: Mysuru

Date: 06<sup>th</sup> Sep 2023

*Dinakar HL* *n-2*  
*12/9/2023*  
**Course Coordinator**  
HOD & Course Coordinator  
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**Principal**  
**Principal**  
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University of Mysore  
Mysore-570 005

**Examiners** *Dinakar HL* *n-3*  
*25/9/2023*  
*[Signature]*  
*25/9/2023*





[www.ibab.ac.in](http://www.ibab.ac.in)

Biotech Park, Electronic  
City Phase I Bengaluru -  
560100

Date: 06<sup>th</sup> Sep 2023

## **CERTIFICATE**

This is to certify that **Mr. Dinakar HL** has carried out the project work entitled “**Establishing secretion of recombinant proteins in E. coli using a novel peptide**” under my supervision and guidance for a period of three months (May 2023 – August 2023). I recommend this dissertation for submission towards obtaining the Degree of M.Sc. in Molecular Biology (Five years Integrated) from the Department of Molecular Biology, of the University of Mysore.

*Sanjay Ghosh*

**Dr. Sanjay Ghosh**

Senior Assistant Professor

Institute of Bioinformatics & Applied Biotechnology

Electronic City Phase 1, 560100





**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore -570005**



**Identifying interactors of Rad53 kinase in an  
*in vivo* condition using Co-immunoprecipitation**

**A Project Report submitted in  
Partial fulfilment of the requirement of the  
Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

**Submitted by  
Eepsitha (YMB18204)**

**Under the guidance of  
Dr Sunil Laxman  
Associate Investigator  
DBT-inStem**

**Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)  
Mysore – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
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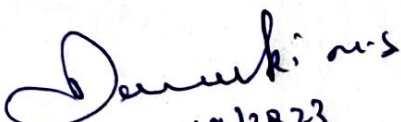
**DEPARTMENT OF MOLECULAR BIOLOGY**

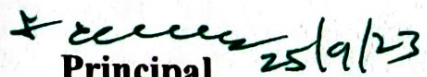
**Certificate**

This is to certify that this dissertation entitled 'Identifying interactors of Rad53 kinase in an *in vivo* condition using Co-immunoprecipitation' towards the partial fulfilment of the Master's degree program Yuvaraja's College (Autonomous) Mysore represents study/work carried out by Eepsitha at the Institute for Stem Cell Science and Regenerative Medicine, Bangalore, under the supervision of Dr. Sunil Laxman, Associate Investigator DBT-inStem, during the academic year 2022-2023.

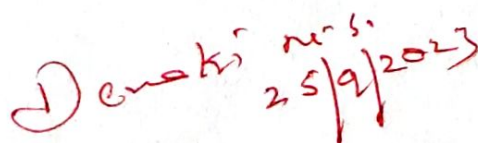
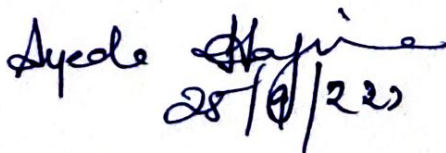
**Place:** Mysore

**Date:** 12-9-2023

  
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Principal  
Yuvaraja's College (Autonomous)  
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Mysore-570 005

**Examiners**

  
25/9/2023  
  
28/9/2023



## Certificate

This is to certify that the project 'Identifying interactors of Rad53 kinase in an *in vivo* condition using Co-immunoprecipitation' submitted by **Eepsitha**, in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore, is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree. This work is the property of inStem, and cannot be reproduced in part or in full elsewhere without prior permission.

Place: *Bengaluru*

Date: *5/9/2023*

(Dr. Sunil Laxman)

Project Guide

मूल कोशिका विज्ञान एवं पुनर्योजी औषधि संस्थान (डीबीटी-इन्स्टेम)  
Institute for Stem Cell Science and Regenerative  
Medicine (DBT - inStem)  
जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी, भारत सरकार के प्रधान स्वास्थ्य संस्थान  
(AI under Department of Biotechnology, MoST, Govt. of India)  
जैकेवीके परिसर, बेहारी रोड / GKVK Campus, Ballary Road  
बैंगलुरु-560 065 / Bengaluru 560 065



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore -570005**



**Investigating the role of beetle-secreted quinones on  
their associated bacterial isolates**

**A Project report submitted in  
partial fulfilment of the requirement of the  
award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

**Submitted by**

**Harshith K G YMB18205**

**Under the guidance of**

**Dr. Deepa Agashe**

**Associate Professor, National Centre for  
Biological Sciences, Tata Institute of  
Fundamental Research Bellary Road,  
Bangalore 560065,**

**Department of Molecular Biology**

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**Mysore – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore -570005



**DEPARTMENT OF MOLECULAR BIOLOGY**

**Certificate**

This is to certify that this dissertation entitled 'Investigating the role of beetle-secreted quinones on their associated bacterial isolates' towards the partial fulfilment of the Master's degree program Yuvaraja's College (Autonomous) Mysore represents study/work carried out by Harshith K G at the National Centre for Biological Sciences (NCBS), Bangalore, under the supervision of Dr. Deepa Agashe, Associate Professor (Reader G), National Centre for Biological Sciences, during the academic year 2022-2023.

Place: Mysore

Date: 12-9-2023

Course Coordinator

*Deepa Agashe* 12/9/2023

HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
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Examiners

*Deepa Agashe* Dr S.  
25/9/23

*Aysha Hajeer*  
25/9/23

*Deepa Agashe* 25/9/23  
Principal

Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

5 Sep 2023

This is to certify that the project '**Investigating the role of beetle-secreted quinones on their associated bacterial isolates**' submitted by **Harshith K G**, in partial fulfilment for the award of M.Sc. in Molecular Biology (five years integrated) Degree of the University of Mysore, is based on studies carried out by him under my guidance and supervision. It is certified that this dissertation/any other part thereof has not been submitted elsewhere for any other degree.

A handwritten signature in black ink, appearing to read 'Deepa', is written above the printed name.

Dr. Deepa Agashe

Associate Professor

Wellcome Trust/DBT India Alliance Fellow

National Centre for Biological Sciences (NCBS)  
Tata Institute of Fundamental Research (TIFR)  
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[www.adaptationlab.in](http://www.adaptationlab.in)



**UNIVERSITY OF MYSORE**  
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JLB Road, Mysuru – 570005

**Analysis of Food-Evoked Locomotory Changes in the  
Calsyntenin Mutants of *Caenorhabditis elegans***

*A Dissertation Presented By*

**INCHARA MURALIDHARA**  
YMB18206

Submitted to the Department of Molecular Biology  
For the partial fulfilment of the requirements of the degree of

**M.Sc. in Molecular Biology (Integrated)**

*Under the Guidance of*  
**Dr. Kavita Babu**  
Associate Professor  
Centre for Neuroscience  
Indian Institute of Science, Bengaluru

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
*(A Constituent Autonomous College of The University of Mysore)*  
JLB Road, Mysuru – 570005

**August 2023**





UNIVERSITY OF MYSORE  
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Mysore -570005



## DEPARTMENT OF MOLECULAR BIOLOGY

### CERTIFICATE

This is to certify that **Ms. Inchara Muralidhara**, Reg. No. **YMB18206** has carried out the project work entitled "**Analysis of Food-Evoked Locomotory Changes in the Calsyntenin Mutants of *Caenorhabditis elegans***" at the Indian Institute of Science, Bengaluru in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23, is based on the studies carried out by her under the guidance and supervision of **Dr. Kavita Babu, Associate Professor** at the Centre for Neuroscience at the Indian Institute of Science, Bengaluru

Place: Mysuru

Date: 30 August 2023

*D. S. S. S.*  
12/9/2023  
Course Coordinator

HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
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*d. s. s. s.*  
25/9/23  
Principal  
Principal  
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Examiners

*D. S. S. S.*  
25/9/23.  
*A. S. S. S.*  
25/9/23



**CENTRE FOR NEUROSCIENCE  
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**CERTIFICATE**

This is to certify that the project entitled “**Analysis of the food-evoked locomotory changes in the Calsyntenin mutants of *Caenorhabditis elegans***”, is a bonafide research work carried out by **Ms. Inchara Muralidhara**, in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) degree of the University of Mysore is based on the studies carried out by her during the period from May - August 2023, under my guidance and supervision. It is further certified that this dissertation / or any other part thereof has not been submitted elsewhere for any other degree.

**Date:** 30 August 2023

**Place:** Bengaluru

**Dr. Kavita Babu**



UNIVERSITY OF MYSORE  
**Yuvaraja's College (Autonomous)**  
Mysore – 570 005



**“Investigating the role of transcription termination  
complex (Rtt103-Rai1-Rat1) in genomic stability”**

A Project Report  
submitted in Partial  
fulfillment of the  
Requirement of the  
Award of

**M.Sc. in Molecular Biology (Integrated)**

Submitted by  
**JAYARAJASHEKARA T S**  
YMB18207

Under the Guidance of  
**Dr. KRISHNAVENI MISHRA**  
Professor  
Department of  
Biochemistry School of  
Life Sciences University  
of Hyderabad Hyderabad  
– 500046 Telangana,  
India

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
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Mysore – 570 005  
**August 2023**



UNIVERSITY OF MYSORE



**Yuvaraja's College (Autonomous)**  
Mysore – 570 005  
**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Mr. Jayarajashékara T S**, Reg. No: YMB18207 has carried out the project work **“Investigating the role of transcription termination complex Rtt103-Rai1-Rat1 in genomic stability”** at the Department of Biochemistry, School of Life Sciences, University of Hyderabad, in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysore

Date: 8.08.2023

*D. Venkatesh*  
Course Coordinator

Examiners

*D. Venkatesh*  
25/9/2023

*Ayde Hajira*  
25/9/2023

*[Signature]* 25/9/23  
Principal

Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
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UNIVERSITY OF HYDERABAD  
School of Life Sciences  
Prof. C.R. Rao Road, South Campus  
Gachibowli, Hyderabad – 500 046

Prof. Krishnaveni Mishra  
Department of Biochemistry

Tel: 040-23134544  
Email: [krishnaveni@uohyd.ac.in](mailto:krishnaveni@uohyd.ac.in)

---

### CERTIFICATE

This is to certify that the project entitled “Investigating the role of transcription termination complex (Rtt103-Rail-Rat1) in genomic stability” submitted by Mr. Jayarajashékara T S in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by him under my guidance and supervision at the Department of Biochemistry, University of Hyderabad. It is further certified that this dissertation or any other part thereof has not been submitted elsewhere for any other degree.

*Krishnaveni Mishra*

Prof. Krishnaveni Mishra  
Department of Biochemistry  
School of Life Sciences  
University of Hyderabad  
Hyderabad-500046



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore- 570005**



**Development of FRET (Fluorescence Resonance Energy  
Transfer) based sensor for human Tmprss2**

**A Project Report submitted in  
Partial fulfilment of the  
Requirement of the Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*  
**JAYASHREE E V**  
**YMB18208**

*Under the guidance of*  
**Dr. VINAY BULUSU**  
Assistant Professor  
Department of Biological Sciences  
Indian Institute of Science Education and Research, Berhampur

**Department of Molecular Biology**  
Yuvaraja's college (Autonomous)  
A CONSTITUENT AUTONOMOUS COLLEGE OF THE UNIVERSITY OF  
MYSORE

August 2023



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A CONSTITUENT AUTONOMOUS COLLEGE OF  
THE UNIVERSITY OF MYSORE  
Mysore- 570005



DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that Ms. Jayashree E V (Reg. No. YMB18208) has carried out the dissertation project entitled "Development of FRET (Fluorescence Resonance Energy Transfer) based sensor for human Tmprss2" at Department of Biological Sciences, IISER Berhampur in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022-2023.

Place: Mysore

Date: 12/9/2023

*Dameethi n.s. 12/9/2023*  
Course Coordinator  
HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

*Principal 22/9/23*  
Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

Examiners

*Dameethi n.s. 25/9/2023*  
*Apeela Hajira 25/9/2023*



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान बरहमपुर  
Indian Institute of Science Education and Research Berhampur  
Established by the Ministry of Education, Govt. of India

### Certificate

This is to certify that Ms. Jayashree EV, a student of Yuvaraja's College, Mysuru has done her masters dissertation project under my supervision at the Department of Biological Sciences, Indian Institute of Science Education and Research Berhampur, Berhampur, Odisha. The title of her project is "Development of FRET based sensor for human Tmprss2".

Place: Berhampur, Odisha

Date: 05.09.2023

Vinay Bulusu, PhD  
Assistant Professor  
Biological Sciences  
IISER Berhampur





**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore -570005



**Delineating the role of Topoisomerase 1  
in innate immunity**

**A Project Report submitted in  
partial fulfilment of the  
requirement of the award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*

**Likitha Umesh Kanagal**

**YMB18209**

*Under the Guidance of*

**Dr. Kushagra Bansal**

**Molecular Biology and Genetics Unit**

**Jawaharlal Nehru Centre for Advanced Scientific Research**

**Jakkur, Bangalore-560064**

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

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**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore -570005



**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. LIKITHA UMESH KANAGAL**,  
Reg.No. **YMB18209** has carried out the project work entitled  
'Delineating the role of Topoisomerase 1 in innate immunity' at the  
Department of Molecular Biology and Genetics, Jawaharlal Nehru  
Centre for Advanced Scientific Research, in partial fulfilment for  
the award of the Degree of M.Sc. in Molecular Biology (Five years  
Integrated) of University of Mysore during the academic year  
2022-23.

**Place: Mysuru**

**Date: 12-9-2023**

*Dameethi n.s*  
*12/9/2023*  
**Course coordinator**  
Coordinator  
Department of Molecular Biology  
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*Principal*  
*25/9/23*  
**Principal**  
Principal  
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**Examiners**

*Dameethi n.s*  
*25/9/2023*  
*Ayode Hajira*  
*25/9/2023*



**JNCASR**

**जवाहरलाल नेहरू उन्नत वैज्ञानिक अनुसंधान केंद्र**

जक्कुर पोस्ट, बेंगलूरु - 560064, कर्नाटक, भारत

विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्थान  
सम विश्वविद्यालय संस्था

**Jawaharlal Nehru Centre For Advanced Scientific Research**

Jakkur P.O., Bengaluru - 560064, Karnataka, INDIA

An autonomous institution under Department of Science and Technology, Govt. of India.  
An Institution Deemed-to-be-University



## Certificate

This is to certify that the project entitled '**Delineating the role of Topoisomerase 1 in innate immunity**' submitted by **Ms. Likitha Umesh Kanagal** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) degree of University of Mysore is based on the studies carried out by her under my guidance and supervision during 22<sup>nd</sup> May -31<sup>st</sup> August 2023. It is further certified that this dissertation/any other part thereof has not been submitted elsewhere for any other degree.

**Place:** Bangalore

**Date:** 5<sup>th</sup> Sept 2023

**Dr. Kushagra Bansal**  
**Project guide**

Molecular Biology & Genetics Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P.O., Bangalore-560 064

Kushagra Bansal, PhD  
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UNIVERSITY OF MYSORE

**Yuvaraja's College (Autonomous)**

JLB Road, Mysuru - 570 005



**“Allelic distribution of GAA repeat expansion of  
FGF14 gene in Indian population”**

A Project Report submitted in Partial fulfillment of the  
Requirement of the Award of  
**M.Sc. in Molecular Biology**  
(Five years Integrated)

*Submitted by*  
**PANNAGA PRASAD G**  
**YMB18210**

*Under the Guidance of*  
**Dr. Meera Purushottam**  
Senior Scientific Officer,  
Molecular Genetics Laboratory, Dept. of Psychiatry,  
National Institute of Mental Health and NeuroSciences  
Bangalore– 560029 | Karnataka | India



**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
(A Constituent Autonomous College of the University of Mysore)  
Mysore – 570005

**August 2023**



UNIVERSITY OF MYSORE  
Yuvaraja's College (Autonomous)  
Mysore – 570005



DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that **Mr. PANNAGA PRASAD G**, Reg. No. **YMB18210** has carried out the project work entitled “**Allelic distribution of GAA repeat expansion of *FGF14* gene in Indian population**” at the Molecular Genetics Laboratory, National Institute of Mental Health and Neuro sciences, Bangalore in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysuru

Date:

*Danaki n.s.*

Course Coordinator

*25/9/23*  
Principal

Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

*Danaki n.s.*  
*25/9/2023*

Examiners

*Syeda Hania*  
*25/9/2023*



# NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES

(Institute of National Importance, under Ministry of Health and Family Welfare, Govt. of India)

Hosur Road, Bengaluru - 560 029

## CERTIFICATE

This is to certify that the project entitled “Allelic Distribution of GAA Repeat Expansion of the FGF14 Gene in the Indian Population”, submitted by Mr. PANNAGA PRASAD G, in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of the University of Mysore, is based on the studies carried out by him under my guidance and supervision. It is further certified that this dissertation/or any other part thereof has not been submitted elsewhere for any other degree.

Place: Bengaluru

Date: 13/09/2023

*Meera Purushottam*

(Dr. Meera Purushottam)

Project Guide

Dr. Meera Purushottam  
Senior Scientific Officer  
Molecular Genetics Laboratory  
Department of Psychiatry  
NIMHANS, Bengaluru - 29.



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore – 570005**



**Studying the effects of temperature cycles in fly chronotype populations**

**A Project Report submitted in  
Partial fulfillment of the  
Requirement of the Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*  
**PRAKRUTHI U N**  
**YMB18211**

*Under the Guidance of*  
**Prof. SHEEBA VASU**  
Professor  
Neuroscience unit

**Jawaharlal Nehru Centre for Advanced Scientific Research,  
Jakkur, Bengaluru – 560064**

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE**  
**UNIVERSITY OF MYSORE)**  
**Mysuru – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore – 570005**



**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. PRAKRUTHI U N**, Reg. No. **YMB18211** has carried out the project work entitled “**Studying the effects of temperature cycles in fly chronotype populations**” at the Neuroscience Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

**Place: Mysuru**

**Date: 12-9-2023**

*D. S. Prasad* 12/9/2023  
**Course Coordinator**  
**HOD & Course Coordinator**  
**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
**University of Mysore**  
**MYSORE-570005**

**Examiners**

*[Signature]*  
26-09-2023

*[Signature]* 25/9/23  
**Principal**  
**Principal**  
**Yuvaraja's College (Autonomous)**  
**University of Mysore**  
**Mysore-570 005**





Jawaharlal Nehru Center for Advanced Scientific Research

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## CERTIFICATE

This is to certify that the project entitled '**Studying the effects of temperature cycles in fly chronotype populations**' submitted by **Ms. PRAKRUTHI U N**, in partial fulfillment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of the University of Mysore, is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

**Place:** Bengaluru

**Date:** 04/09/23

(Prof. Sheeba Vasu)

Project Guide

Neuroscience Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P. O., Bengaluru - 560 064



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore – 570 005



**CLONING, EXPRESSION, AND IN-VIVO  
CHARACTERIZATION OF UBIQUITIN  
MUTANTS FOR DUBs ACTIVITY**

**A Project Report submitted in  
partial fulfilment of the  
requirement of the Award of**

**M.Sc. in Molecular Biology (Integrated)**

Submitted by  
**PRITHVI HEGDE**  
**YMB18212**

Under the Guidance of  
**Dr. PARUL MISHRA**  
Assistant Professor (UGC)  
Department of Animal Biology  
School of Life Sciences  
University of Hyderabad 500 046

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)  
Mysore – 570 005  
**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore – 570 005**



**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. PRITHVI HEGDE**, Reg. No. **YMB18212** has carried out the project work entitled '**CLONING, EXPRESSION AND IN-VIVO CHARACTERIZATION OF UBIQUITIN MUTANTS FOR DUBs ACTIVITY**' at the Department of Animal Biology, School of Life Sciences, University of Hyderabad in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysore

Date: 12-9-2023

*Dheeraj* 12/9/2023  
**Course Coordinator**  
MYSORE-570005  
University of Mysore  
Yuvaraja's College (Autonomous)  
Department of Molecular Biology  
HOD & Course Coordinator

*Dheeraj* 25/9/23  
**Principal**  
**Principal**  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

**Examiners** *Chinnu*  
26.09.2023  
*Dheeraj* 26/9/2023



Dept of Animal Biology

School of Life Sciences

University of Hyderabad

(A Central University established in 1974 by an act of parliament)

Date: 01-09-2023

## **CERTIFICATE**

This is to certify that **Miss. Prithvi Hegde** has carried out the project work entitled “**Cloning, Expression and In-vivo Characterization of Ubiquitin Mutants for DUBs activity**” under my supervision and guidance for a period of three months (May 2023 – August 2023). I recommend this dissertation for submission towards obtaining the Degree of M.Sc. in Molecular Biology (Five years Integrated) from the Department of Molecular Biology, of the University of Mysore.

*Parul Mishra* 1/9/2023  
**Dr. Parul Mishra**

Assistant Professor

Department of Animal Biology

School of Life Sciences

University of Hyderabad



**UNIVERSITY OF MYSORE**

**Yuvaraja's College  
(Autonomous)**

**Mysore -570005**



**Developing a Model System for E2A Live Cell  
Imaging**

**A Project Report submitted in  
partial fulfilment of the  
requirement of the award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*

**Rakshita N**

**YMB18213**

*Under the Guidance of*

**Prof. Jagan Pongubala**

**Dept. of Animal Biology, School of Life Sciences  
University of Hyderabad, Gachibowli, Hyderabad**

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)  
(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)**

**Mysore – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore -570005

**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that Ms. RAKSHITA N, Reg.No. YMB18213 has carried out the project work entitled 'Developing a Model System for E2A Live Cell Imaging' at the Department of Animal Biology, University of Hyderabad, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

**Place: Mysuru**

**Date:** 16/9/2023

*Dameeki* 16/9/2023  
**Course coordinator**  
HOD & Course Coordinator  
Department of Molecular Biology  
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*Dameeki* 25/9/23  
**Principal**  
Principal  
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Mysore-570 005

**Examiners**

*Chinnu*  
26/9/2023

*Dameeki* 26/9/2023



**Department of Animal Biology**

**School of Life Sciences**

**University of Hyderabad**

(A Central University established in 1974 by the Act of Parliament)

Hyderabad 500046,

**CERTIFICATE**

This is to certify that **Ms Rakshita N** has carried out the project work embodied in the present dissertation entitled "Developing a Model System for E2A Live Cell Imaging in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) degree of University of Mysore is based on the studies carried out by her under my guidance and supervision from 15<sup>th</sup> May -31<sup>st</sup> August 2023. It is further certified that this dissertation/any other part thereof has not been submitted elsewhere for any other degree.

**Place:** Hyderabad

**Date:** 09/09/2023

**Prof. Jagan Pongubala**

(Project guide)  
Dr. Jagan Pongubala  
Professor  
Department of Animal Biology  
School of Life Sciences  
University of Hyderabad  
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**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore -570005**



**Exploring Mutation Bias and Pleiotropy: Implications  
for Adaptation in Diverse Environments and Antibiotic  
Resistance**

**A Project Report submitted in  
Partial fulfilment of the requirement of the  
Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

**Submitted by  
Ruchith B K YMB18214**

**Under the guidance of  
Dr. Deepa Agashe  
Associate Professor, National Centre for  
Biological Sciences, Tata Institute of  
Fundamental Research Bellary Road,  
Bangalore 560065**

**Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
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Mysore – 570005**

**August 2023**





**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
Mysore -570005



**DEPARTMENT OF MOLECULAR BIOLOGY**

Certificate

This is to certify that this dissertation entitled Exploring Mutation Bias and Pleiotropy: Implications for Adaptation in Diverse Environments and Antibiotic Resistance towards the partial fulfilment of the Master's degree program Yuvaraja's College (Autonomous) Mysore represents study/work carried out by Ruchith B K at the National Centre for Biological Sciences (NCBS), Bangalore, under the supervision of Dr. Deepa Agashe, Associate Professor (Reader G), National Centre for Biological Sciences, during the academic year 2022-2023.

Place: Mysore

Date: 12-9-2023

Course Coordinator

HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

Examiners

*[Signature]*  
26/9/2023

*[Signature]*  
26/9/2023

*[Signature]*  
25/9/23

Principal  
Principal

Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

5 Sep 2023

This is to certify that the project '**Exploring Mutation Bias and Pleiotropy: Implications for Adaptation in Diverse Environments and Antibiotic Resistance**' submitted by **Ruchith BK**, in partial fulfilment for the award of M.Sc. in Molecular Biology (five years integrated) Degree of the University of Mysore, is based on studies carried out by him under my guidance and supervision. It is certified that this dissertation/any other part thereof has not been submitted elsewhere for any other degree.

A handwritten signature in black ink, appearing to read 'Deepa', is positioned above the printed name.

Dr. Deepa Agashe

Associate Professor

Wellcome Trust/DBT India Alliance Fellow

National Centre for Biological Sciences (NCBS)  
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[www.adaptationlab.in](http://www.adaptationlab.in)



UNIVERSITY OF MYSORE  
**Yuvaraja's College (Autonomous)**  
Mysore – 570 005



**“Functional assessment of metabolic activity in mitochondrial  
derived vesicles in rat liver”**

A Project Report submitted in  
Partial fulfilment of the  
Requirement of the Award of

**M.Sc. in Molecular Biology (Integrated)**

Submitted by  
**SHARANYA BHARGAV**  
YMB18215

Under the Guidance of  
**Dr. Naresh Babu V Sepuri**  
Professor and Head  
Department of Biochemistry  
School of Life Sciences  
University of Hyderabad  
Hyderabad – 500046  
Telangana, India

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**  
(A CONSTITUENT AUTONOMOUS COLLEGE OF THE UNIVERSITY OF  
MYSORE)  
Mysore – 570 005  
August 2022



UNIVERSITY OF MYSORE



**Yuvaraja's College (Autonomous)**

Mysore – 570 005

**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. Sharanya Bhargav**, Reg. No: YMB18215 has carried out the project work entitled “**Functional assessment of metabolic activity in mitochondrial derived vesicles in rat liver**” at the Department of Biochemistry, School of Life Sciences, University of Hyderabad, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2023-24.

Place: Mysore

Date: 30.08.2023

*Demurki - ms.*  
Course Coordinator

*d. e...*  
Principal 26/9/23  
Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

**Examiners**

*Demurki*  
26.09.2023

*Demurki - ms.*  
26/9/2023



## **CERTIFICATE**

This is to certify that the project entitled "**Functional assessment of metabolic activity in mitochondrial derived vesicles in rat liver**" submitted by Ms. **Sharanya Bhargav** in partial fulfilment for the award of M.Sc. in Molecular Biology (Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

*S. V. Naresh Babu*  
(**Prof. Naresh Babu V Sepuri**)  
Guide

प्रो. नरेश बाबु वी. शंपूरी  
Prof. NARESH BABU V. SEPURI  
अध्यक्ष / Head  
जीवरसायनविभाग / Department of Biochemistry  
जीवविज्ञान संकाय / School of Life Sciences  
हैदराबाद विश्वविद्यालय / University of Hyderabad  
हैदराबाद / Hyderabad-500046. INDIA



**UNIVERSITY OF MYSORE**  
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**OF THE UNIVERSITY OF MYSORE)**  
**JLB Road, Mysuru – 570 005**

**BIOINFORMATIC ANALYSIS AND**  
**TNF PROTEIN EXPRESSION OF WENGEN**  
**FROM *An. stephensi***

**Project report submitted in partial fulfillment**  
**of the requirement of the award of**  
**M.Sc. in Molecular Biology**  
**(Five years Integrated)**

**By**

**K. TRUPTI**  
**10<sup>th</sup> Semester**  
**YMB18216**

**Under the guidance of**

**Prof. BIBHA CHOUDHARY**

**Institute of Bioinformatics and Applied Biotechnology**  
**Bangalore-560100**

**Department of Molecular Biology**  
**Yuvaraja's College (Autonomous)**

**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE UNIVERSITY OF MYSORE)**

**Mysore – 570 005**

**August 2023**



**UNIVERSITY OF MYSORE**

**Yuvaraja's College (Autonomous)**

**Mysore – 570 005**

**DEPARTMENT OF MOLECULAR  
BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. K TRUPTI** , Reg.No: YMB18216 has carried out the project work entitled **“BIOINFORMATIC ANALYSIS AND TNF PROTEIN EXPRESSION OF WENGEN FROM *Anopheles stephensi*”** at Institute of Bioinformatics and Applied Biotechnology in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022-23.

Place: *Mysore*

Date: *12-9-2023*

**Course Coordinator**

*D. Venkatesh*  
*12/9/2023*

**HOD & Course Coordinator**  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

**Examiners**

*Chandra*  
*26.9.2023*

*D. Venkatesh*  
*26/9/2022*

*L. Kumar*  
*25/9/23*  
**Principal**  
**Principal**

**Yuvaraja's College (Autonomous)**  
**University of Mysore**  
**Mysore-570 005**

## CERTIFICATE

This is to certify that the Project entitle “**BIOINFORMATIC ANALYSIS AND TNF PROTEIN EXPRESSION OF WENGEN FROM *Anopheles stephensi***” submitted by Ms. K TRUPTI in partial fulfillment for the award of M.Sc., in Molecular Biology (5years Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bangalore

Date: 05/09/2023



Prof. Bibha Choudhary







**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysore -570005**



**Studying autophagosome biogenesis in**  
***Saccharomyces cerevisiae***

**A Project Report submitted in**  
**Partial fulfilment of the**  
**requirement of the Award of**

**M.Sc. in Molecular Biology**  
**(Five years Integrated)**

*Submitted By*

**VASUDHA VARMA J**

**YMB18217**

*Under the Guidance of*

**Prof. RAVI MANJITHAYA**

**Associate Professor**

**Molecular Biology and Genetics Unit**

**Jawaharlal Nehru Centre for Advanced Scientific Research**

**Jakkur, Bangalore – 560064**

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE**  
**UNIVERSITY OF MYSORE)**

**Mysore – 570005**

**August 2023**



UNIVERSITY OF MYSORE  
Yuvaraja's College (Autonomous)  
Mysore -570005



DEPARTMENT OF MOLECULAR BIOLOGY

CERTIFICATE

This is to certify that Ms. VASUDHA VARMA J, Reg. No. YMB18217 has carried out the project work entitled 'Studying autophagosome biogenesis in *Saccharomyces cerevisiae*' at the Department of Molecular Biology and Genetics, Jawaharlal Nehru Centre for Advanced Scientific Research, in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysore

Date: 04-09-2023

Davek, M.S.  
4/9/2023  
Course Coordinator  
HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

+ g... 25/9/23  
Principal  
Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

Examiners

Davek  
26.9.2023

Davek, M.S.  
26/9/2023



Jawaharlal Nehru Center for Advanced Scientific Research  
(Autonomous Body under the Department of Science & Technology, Government of India)  
Jakkur Campus, Jakkur Post  
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## **CERTIFICATE**

This is to certify that the project entitled '**Studying Autophagosome Biogenesis in *Saccharomyces cerevisiae***' submitted by **Ms. VASUDHA VARMA J** in partial fulfilment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of University of Mysore is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation / any other part thereof has not been submitted elsewhere for any other degree.

Place: Bangalore

Date: 01-09-2023

(Prof. Ravi Manjithaya)

Project Guide

**Prof. Ravi Manjithaya**  
Chair  
Neuroscience Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P. O., Bengaluru - 560 064



UNIVERSITY OF MYSORE



**Yuvaraja's College (Autonomous)**  
Mysore – 570 005  
**DEPARTMENT OF MOLECULAR BIOLOGY**

**Effect of Quercetin treatment on**  
**O-GlcNAcylation of kidney in Diabetic animals**

By,

**Ms. Vidya M.B**

**Reg. No: YMB18218**

**Yuvaraja's College, University of Mysore**

**Dissertation submitted to**

**Yuvaraja's College, University of Mysore**

**In partial fulfilment of the requirements**

**For the degree of**

**MASTER OF SCIENCE**

**in**

**MOLECULAR BIOLOGY**



**Under the guidance of**

**Dr. Nandini C.D.**

**Senior Principal Scientist**

**Department of Molecular Nutrition**

**CSIR-Central Food Technological Research Institute**

**Mysuru-570020 August -2023**



UNIVERSITY OF MYSORE



**Yuvaraja's College (Autonomous)**

Mysore – 570 005

**DEPARTMENT OF MOLECULAR BIOLOGY**

**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that Ms. Vidya.M.B. Reg. No: YMB18218 has carried out the major research project work entitled “Effect of Quercetin treatment on O-GlcNAcylation of kidney in Diabetic animals “at the Department of Molecular Nutrition, CSIR-CFTRI, Mysuru in partial fulfilment for the award of the Degree of M.Sc. in Molecular Biology (Integrated) of University of Mysore during the academic year 2022-23.

Place: Mysuru

Date: 12/9/2023

Course Coordinator

*Daneshi* <sup>o.u.s.</sup>  
12/9/2023

**HOD & Course Coordinator**  
Department of Molecular Biology  
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*S. Srinivas* 25/9/23

Principal  
Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

Examiners

*Chinnu*  
26.9.2023

*Daneshi* <sup>o.u.s.</sup>  
26/9/2023





**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysuru – 570005**



**Characterization of the toxicity of mutant HTTQ50 in  
*Drosophila* model of HD**

**A Project Report submitted in  
Partial Fulfillment of the  
Requirement of the Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*

**VYSHNAVI SHANKAR**  
YMB18219

*Under the Guidance of*

**Prof. SHEEBA VASU**

Professor

Neuroscience unit

Jawaharlal Nehru Centre for Advanced Scientific Research,  
Jakkur, Bangaluru – 560064

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)**

**Mysuru – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysuru – 570005**



**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that Ms. **VYSHNAVI SHANKAR**, Reg. No. **YMB18219** has carried out the project work entitled '**Characterization of the toxicity of mutant HTT Q50 in *Drosophila* model of HD**' at the Neuroscience Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.

**Place: Mysuru**

**Date:** 12/9/2023

**Course Coordinator**  
HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

**Examiners**

26.9.2023

**Principal**

Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005





Jawaharlal Nehru Center for Advanced Scientific Research  
(Autonomous Body under the Department of Science & Technology, Government of India)  
Jakkur Campus, Jakkur Post  
Bengaluru 560 064, INDIA  
Email: sheeba@jncasr.ac.in

Office Tel: +91 (80) 2208 2924  
Office Fax: +91 (80) 22082766  
+91 (80) 2208 2767

## **CERTIFICATE**

This is to certify that the project entitled '**Characterization of the toxicity of mutant HTT Q50 in *Drosophila* model of HD**' submitted by **Ms. VYSHNAVI SHANKAR**, in partial fulfillment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of the University of Mysore, is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation/or any other part thereof has not been submitted elsewhere for any other degree.

**Place: Bengaluru**

**Date: 06/09/2023**

(Prof. Sheeba Vasu)

Project Guide

**Neuroscience Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P. O., Bengaluru - 560 064**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysuru – 570005**



**Study of reproductive behavior of female *Drosophila melanogaster* in different social environments**

**A Project Report submitted in  
Partial Fulfillment of the  
Requirement of the Award of**

**M.Sc. in Molecular Biology  
(Five years Integrated)**

*Submitted By*

**YASHASWINI M B**

**YMB18220**

*Under the Guidance of*

**Prof. SHEEBA VASU**

**Professor**

**Neuroscience unit**

**Jawaharlal Nehru Centre for Advanced Scientific Research,  
Jakkur, Bangaluru – 560064**

**Department of Molecular Biology**

**Yuvaraja's College (Autonomous)**

**(A CONSTITUENT AUTONOMOUS COLLEGE OF THE  
UNIVERSITY OF MYSORE)**

**Mysuru – 570005**

**August 2023**



**UNIVERSITY OF MYSORE**  
**Yuvaraja's College (Autonomous)**  
**Mysuru – 570005**



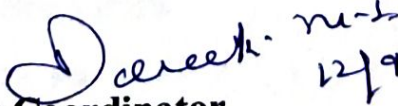
**DEPARTMENT OF MOLECULAR BIOLOGY**

**CERTIFICATE**

This is to certify that **Ms. YASHASWINI M B**, Reg. No. **YMB18220** has carried out the project work entitled '**Study of reproductive behavior of female *Drosophila melanogaster* in different social environments**' at the Neuroscience Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru in partial fulfillment for the award of the Degree of M.Sc. in Molecular Biology (Five years Integrated) of University of Mysore during the academic year 2022-23.


**Place:** Mysuru


**Date:** 12-9-2023

  
**Course Coordinator**  
HOD & Course Coordinator  
Department of Molecular Biology  
Yuvaraja's College (Autonomous)  
University of Mysore  
MYSORE-570005

  
**Principal**  
Principal  
Yuvaraja's College (Autonomous)  
University of Mysore  
Mysore-570 005

**Examiners**

  
26.9.2023

  
26/9/2023



Jawaharlal Nehru Center for Advanced Scientific Research  
(Autonomous Body under the Department of Science & Technology, Government of India)  
Jakkur Campus, Jakkur Post  
Bengaluru 560 064, INDIA  
Email: sheeba@jncastr.ac.in


Office Tel: +91 (80) 2208 2924  
Office Fax: +91 (80) 22082766  
+91 (80) 2208 2767

## **CERTIFICATE**

This is to certify that the project entitled '**Study of reproductive behavior of female *Drosophila melanogaster* in different social environments**' submitted by Ms. **YASHASWINI M B**, in partial fulfillment for the award of M.Sc. in Molecular Biology (Five years Integrated) Degree of the University of Mysore, is based on the studies carried out by her under my guidance and supervision. It is further certified that this dissertation/or any other part thereof has not been submitted elsewhere for any other degree.

**Place: Bengaluru**

**Date: 06-09-2023**

  
(Prof. Sheeba Vasu)

Project Guide

Neuroscience Unit  
Jawaharlal Nehru Centre for  
Advanced Scientific Research  
Jakkur P. O., Bengaluru - 560 064

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "PREDICTION OF HEALTHY BLOOD DONAR BASED ON BLOOD TEST PARAMETER USING DATA MINING TECHNIQUE" is the bonafied Project work carried out by BIARATH K (YBC20107) AND CHANDRASHEKAR L S (YBC20112) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners  
DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

1

VALUED

2

EXAMINERS (1).....

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "HCI WITH HUMAN EYE GAZE" is the bonafied Project work carried out by SACHIN Y (YBC20156) and SHALINI H (YBC20158) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

1

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

2

VALUED

EXAMINERS: 1) *[Signature]* 26/7/2023

2) *[Signature]*

*[Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

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## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "DEPRESSION DETECTION USING MACHINE LEARNING" is the bonafied Project work carried out by KARTHIK N R (BC20122) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment he requirements for awarding the degree of Bachelor of Computer Application.

nature of Guide

*Signature*  
27/07/23

nature of Examiners

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1).....	<i>Signature</i> 27/7/2023
2).....	<i>Signature</i>

*Signature*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-5

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(A Constituent Autonomous college of University of Mysore)

JLB Road, Mysore-570005

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "**ARTICLE PUBLISHING AND EDITING SERVICES SYSTEM**" is the bonafide Project work carried out by **FAISAL KHALFAN SAIF ALOMAIRI (YBC20115)** student of BCA Yuvaraja's college, a constituent Autonomous college of Mysore.

During the year 2022-2023 in partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

#### Signature of Guides

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Signature of Examiners	
DEPARTMENT OF COMPUTER SCIENCE	
YUVARAJA'S COLLEGE, MYSORE	
1.	VALUED
2.	
EXAMINERS: 1)	<i>[Signature]</i> 27/7/2023

*[Signature]*  
Signature of HOD  
Department  
Department of Computer Science  
Yuvaraja's College, MYSORE



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of The University of Mysore)  
JLB road, Mysore - 570 005.

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "AI BASED AGE AND GENDER DETECTION" is the Bonafide Project work carried out by SHARATHI KUMAR R (YBC20160) and SUDHANVA M L (YBC20166), students of VI semester BCA, Computer Science, Yuvaraja's College, a constituent Autonomous college, Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1. *Rose*  
27/7/23

2.

Signature of Examiners

1. DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

2. VALUED

EXAMINERS: 1) *B* 27/7/2023  
2) *M* 27/7/2023

*Il*  
Signature of HOD  
Head of the Department  
Department of Computer Science

# YUVARAJA S COLLEGE

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## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "FIND THE MISSING KIDS" is the bonafide Project work carried out by G CHANDANA(YBC20116),AKSHIATHIA.P(YBC20103) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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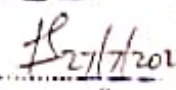
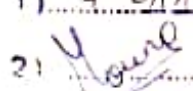
2

Signature of Examiners

1

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Department of Computer Science,  
Yuvaraja's College, MYSORE-570005  
Signature of HOD

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE
<b>VALUED</b>
EXAMINERS: 1) 
2) 

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## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "CONTENT ADAPTIVE IMAGE EGANOGRAPHY USING CONVOLUTIONAL NEURAL NETWORK" is the bonafied Project work carried out by GOWTHAMI K S (YBC20118) and MANOJ L.(YBC20135) student of 3rd semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous College of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*[Handwritten Signature]*  
27/07/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1) *[Signature]* 27/7/2023  
2) *[Signature]* 27/7/2023

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA 'S COLLEGE

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DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE



This is to certify that the project work entitled "HERBAL MEDICINAL PLANT IDENTIFICATION" is the bonafied Project work carried out by KUSUMA C P (YBC20126) and KAVYA K R (YBC20123) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1   
27/07/23

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Signature of Examiners

1 DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE  
VALUED  
EXAMINERS: 1)   
2)  K. B

  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

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DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "FILE ORGANIZER USING WINDOWS FORMS APPLICATION" is the Bonafede Project work carried out by ANKUSH J (YBC20104), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

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DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

2

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EXAMINERS: 1)

2) Geetha K.B

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

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## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "PATIENT CENTRIC HEALTH FORMATION EXCHANGE FRAMEWORK USING AWS S3 SERVICE" is the bonafide project work carried out by HARSHITHA B S(YBC20119) and KIRAN R(YBC20124), students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

  
27/07/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) 

2)   
Geetha K. B

  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

Signature of HOD

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## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "MOTION DETECTION USING CNN" is the bonafied Project work carried out by ASHWINI B G (YBC20106) and GEETHANJALI M (YBC20117) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

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DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

2

EXAMINERS: 1)

2) Geetha k. B

  
Signature of Head of Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE


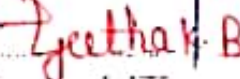


### CERTIFICATE

This is to certify that the project work entitled "DIGITAL FORENSICS INVESTIGATION USING CLOUD BASED SERVICES(AWS)" is the bonafide Project work carried out by ANUSHA B(YBC20105) and BHAVANA P(YBC20108) student of semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous College of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE
<b>VALUED</b>
EXAMINERS: 1) 
2)  Geetha K. B

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-





# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore)



JLB Road, Mysore-570005



## CERTIFICATE

This is to certify that the project work entitled "FOOD WASTAGE MANAGEMENT SYSTEM" is the bonafide Project work carried out by LOHITH T G (YBC20128) and MAHESH M (YBC20132) student of VI semester BCA, Computer Science, at Yuvaraja s College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

### Signature of Guide

1		DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE <h2 style="text-align: center;">VALUED</h2>
2	EXAMINERS: 1) ..... 2) .....	

### Signature of Examiners

1		DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE <h2 style="text-align: center;">VALUED</h2>
2	EXAMINERS: 1) <i>K.B.</i> ..... 2) .....	

**Signature of HOD,**  
Head of the Department  
 Department of Computer Science  
 Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED EMAIL FOR BLIND" is the bonafied Project work carried out by RAJENDRA PRASAD K G (YBC20147) and PRASAD I (YBC20146) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Handwritten Signature]*  
2 *[Handwritten Signature]*

DEPARTMENT OF COMPUTER SCIENCE,  
Signature of Examiners  
1 *[Handwritten Signature]*  
2 *[Handwritten Signature]*  
EXAMINERS: *[Handwritten Signature]*

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "INTELLIGENT PREGNANCY ASSISTANT" is the bonafied Project work carried out by SHRI LAKSHMI M (YBC20162) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

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DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1)	<i>[Handwritten Signature]</i>
2)	<i>[Handwritten Signature]</i>

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE




### CERTIFICATE

This is to certify that the project work entitled "FITNESS TRAINER APPLICATION USING ARTIFICIAL INTELLIGENCE" is the bonafied Project work carried out by IRISHAL (YBC20168) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

Signature of Examiners

  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1).....

2).....

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, II B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "ONLINE ART GALLERY" is the bonafide Project work carried out by RAVI KUMARA M (YBC20152) and SACHIN K S (YBC20155) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

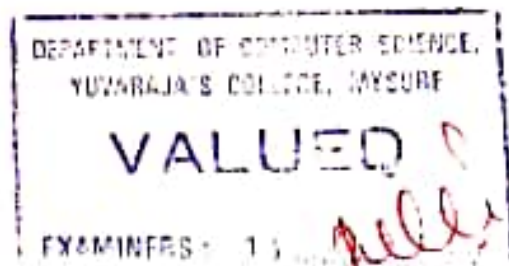
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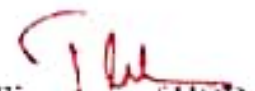
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Signature of Examiners

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Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED EMAIL FOR BLIND" is the bonafied Project work carried out by RAJENDRA PRASAD K G (YBC20147) and PRASAD I (YBC20146) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

1

2

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1).....	2).....

*Handwritten signatures in red ink are present over the stamp.*

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "AGRICULTURE SUPPORTIVE SYSTEM" is the benefited Project work carried out by RAMESH M (YBC20150) and VARALAKSHMI V (YBC20169) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

- 1
- 2

Signature of Examiners

- 1
- 2

DEPARTMENT OF COMPUTER SCIENCE YUVARAJA'S COLLEGE, MYSORE	
<b>VALUED</b>	
EXAMINERS: 1)	<i>pallavi</i>
2)	<i>Ramesh</i>

*[Handwritten Signature]*  
Signature of HOD

*Head of the Department*  
Department of Computer Science  
Yuvaraja's College, Mysore

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "AI-BASED FAKE JOB POST DETECTION USING RANDOM FOREST ALGORITHM" is the bonafied Project work carried out by NAVYASHEE D (YBC20139) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners  
DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

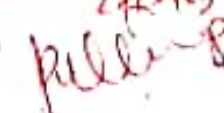
VALUED

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EXAMINERS: 1)



2)



  
Signature of HOD

Department of Computer Science  
Yuvaraja's College, Mysore



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(Constituent Autonomous College of the University of Mysore, H.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

to certify that the project work entitled "SIGN LANGUAGE TO VOICE AND TEXT" is completed Project work carried out by RAKESH B K (YBC20148) student of VI semester Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree Bachelor of Computer Application.

Signature of Guide

*Rakesh B K*

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) *Rakesh B K*

2) *...*

*[Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "TASKIFY-INTELLIGENT TASK MANAGEMENT SYSTEM" is the bonafide Project work carried out by RAKESH K S (BC20149) and NIKHIL M (YBC20141) students of VI semester BCA, Computer Science, Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-23 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*Rakesh K S*  
21/7/22

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1) *Rakesh K S* 21/7/22  
2) *Nikhil M* 21/7/22

*[Signature]*  
Signature of HOD  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous college of the university of Mysore, JLB road, mysore-05)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "**ONLINE DYNAMIC HAND GESTURE RECOGNITION**" is the Bonafied Project work carried out by **NITHYA G S (YBC20143)** and **PRAJWAL R(YBC20145)** students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

#### Signature of Guide

1 *[Handwritten Signature]*  
2

*[Handwritten Signature]*

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

#### Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE  
2 VALUED  
EXAMINERS: 1) *[Handwritten Signature]*  
2) *[Handwritten Signature]*



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore)



JLB Road, Mysore-570005



## CERTIFICATE

This is to certify that the project work entitled "AN AI-BASED SYSTEM FOR BIRD AND DRONE DETECTION USING YOLO V4/V5 OBJECT DETECTION MODELS" is the bonafide project work carried out by MANU B R (YBC20136) and SHASHANK H R (YBC20161), students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

**Signature of Guide**

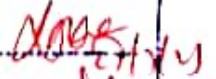

1  25/1/23

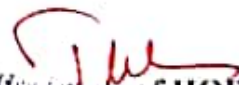
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**Signature of Examiners**

DEPARTMENT OF COMPUTER SCIENCE,  
1 YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1)   
2) 

  
**Signature of HOD,**  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "INTELLIGENT PORTAL FOR GOVERNMENT SCHEMES" is the bonafied Project work carried out by MEGHASHREE N AND REETHU M B student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*Rose*  
25/11/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) *Rose*  
2) *Pulle*  
25/11/23

*Pulle*  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

# YUVARAJA'S COLLEGE

(A Constituent Autonomous college of the university of Mysore, JLB road, mysore-05)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled **"A NOVEL INTRUSION DETECTING MODEL FOR DETECTING KNOWN AND INNOVATIVE CYBER ATTACKS USING CONVOLUTIONAL NEURAL NETWORK"** is the Bonafied Project work carried out by **NAGASHREEC (YBC20138)** and **RANJITHA C K(YBC20151)** students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Signature]*  
20/12/22

2

*[Signature]*  
Signature of HOD

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

2 **VALUED**  
*[Signature]*  
27/01/23

EXAMINERS: 1).....  
2).....

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

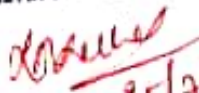
## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "BREAST CANCER COIMBRA" (Using Random Forest and Decision Tree) is the bonafied Project work carried out by ANCHANA K S (YBC20163) and NIRMALA BAI G(YBC20142) student of VI semester KCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1   
25/7/23

2

Signature of Examiners

  
Signature of HOD

DEPARTMENT OF COMPUTER SCIENCE.

1 YUVARAJA'S COLLEGE, MYSORE

23/7/23  
VALUED

EXAMINERS

1)   
2) \_\_\_\_\_

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.R. Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



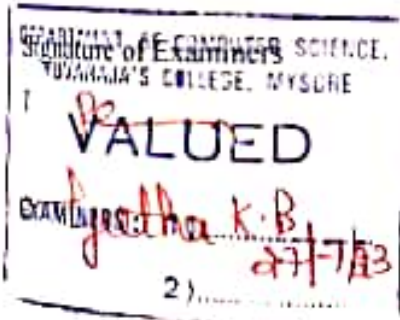
## CERTIFICATE

This is to certify that the project work entitled "CROP YIELD PREDICTION USING MACHINE LEARNING" is the bonafied Project work carried out by JEEVAN R (YBC20121) and HITHESH GOWDA B S (YBC20120) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *Prithvish*  
27/07/23

2



*[Signature]*

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "RETRO CAR ONLINE SALE VIA BIDDING" is the benefited Project work carried out by ADARSHA A(YBC20101) and MANOJ H N (YBC20133) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Handwritten Signature]*  
07/10/23

2

Signature of Examiners

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2  
DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE  
**VALUED**  
EXAMINERS: 1) *[Handwritten Signature]*  
2) *[Handwritten Signature]* Geetha K.B

*[Handwritten Signature]*  
Signature of HOD  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JUB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "GEOGRAPHICAL LOCATION WISE OPTIC FIBRE HUB CHECK AND UPDATE REPAIR DETAILS" is the Bonafede Project work carried out by CHANDRU H R (YBC20113), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

DEPARTMENT OF COMPUTER SCIENCE,  
SIGNATURES, MYSORE

**VALUED**

EXAMINERS:  
1) K-B  
2) 27/7/23

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B. Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



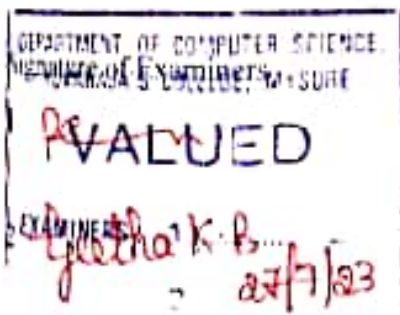
### CERTIFICATE


This is to certify that the project work entitled "MOBILE BASED INVENTORY MANAGEMENT SYSTEM USING QR CODE" is the Bonafede Project work carried out by AIAY V (YBC20102), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



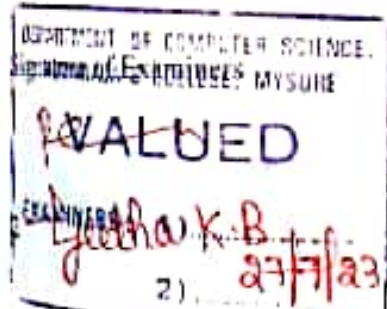
### CERTIFICATE

This is to certify that the project work entitled "CAR NUMBER PLATE RECOGNITION USING DEEP LEARNING" is the benefited Project work carried out by KISHAN AP(YBC20125) and MANOJ K M(YBC20154) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1.   
27/7/23

2.



  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)  
DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "FINANCE PLANNING APPLICATION FOR EMPLOYEES" is the bonafied Project work carried out by MAHADEVASWAMY P (YBC20130) and MAHADEVSWAMY P R (YBC20131) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *(Signature)*

2

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF MYSORE
SIGNATURE OF EXAMINERS
1 <i>Pe</i>
2 <i>gatha k.B</i>
2)..... 27/7/23

*(Signature)*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-570005

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "FAKE LOGO DETECTION" is the bona fide Project work carried out by CHANDAN HM(YBC20109) and CHANDAN L(YBC20110) Students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1. *Meghana J*  
27/07/23

2

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

1. *Revalued*

2. EXAMINERS  
1) *K B*  
2) *27/7/23*

Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "DROWSINESS DETECTION SYSTEM" is the bonafide Project work carried out by LIKHITHA R (YBC20127) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *Dinkar*  
27/01/23

2

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

1 VALUED

EXAMINERS: 1) *H* 27/1/2023  
2) *M*

*S*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.H. Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

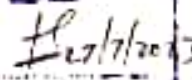
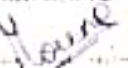
This is to certify that the project work entitled "EMOTION BASED MUSIC PLAYER" is the bonafied Project work carried out by SHANTHA KUMAR T M (YBC20159) AND SOFIYA P (YBC20174) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 

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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE YUVARAJA'S COLLEGE, MYSORE	
<b>VALUED</b>	
EXAMINERS: 1)	 27/7/2023
2)	

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE, K



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.H Road, Mysore-570005)

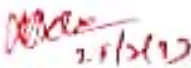
## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "HEART-BEAT RATE PREDICTION USING FACE VIDEO" is the bonafied Project work carried out by SOWJANYA S R (YBC20165) AND SURAJ D (YBC20167) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide


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2.1/2/23

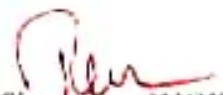
2

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
1 YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1)  27/2/2023

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B. Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE


This is to certify that the project work entitled "AI BASED ATTENDANCE SYSTEM USING FACE RECOGNITION" is the bonafide Project work carried out by CHIANDANA S (YBC20111) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

Signature of Examiners

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE.

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) B 27/7/2023

M. N. S.

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.H Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "OBJECT DETECTION FOR BLIND PEOPLE ASSISTANCE" is the bonafied Project work carried out by PAVAN RAJ A R (YBC20144) and ROHANT K (YBC20154) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *Rajesh*  
26/7/23

2

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,

YUVARAJA'S COLLEGE, MYSORE

**VALUED**

2

EXAMINERS: 1).....

2).....

Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-570005

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JI B Road, Mysore-571005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED ATM" is the bonafied Project work carried out by SANDEEP M (YBC20157) AND YASHIWANTHI R H (YBC 20170) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

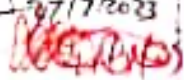

Signature of Guide


1 

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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

1 **VALUED**  
27/7/2023  
EXAMINERS: 1)   
2) 

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "PREDICTION OF HEALTHY BLOOD DONAR BASED ON BLOOD TEST PARAMETER USING DATA MINING TECHNIQUE" is the bonafied Project work carried out by BIARATH K (YBC20107) AND CHANDRASHEKAR L S (YBC20112) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

Signature of Examiners  
DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

1

VALUED

2

EXAMINERS (1).....  
2)

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "HCI WITH HUMAN EYE GAZE" is the bonafied Project work carried out by SACHIN Y (YBC20156) and SHALINI H (YBC20158) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

Signature of Examiners

1

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

2

VALUED

EXAMINERS: 1) *H. 26/7/2023*

2) *M. K. S.*

*[Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "DEPRESSION DETECTION USING MACHINE LEARNING" is the bonafied Project work carried out by KARTHIK N R (BC20122) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment he requirements for awarding the degree of Bachelor of Computer Application.

nature of Guide

*[Handwritten Signature]*  
27/07/23

nature of Examiners

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1).....	<i>[Handwritten Signature]</i> 27/7/2023
2).....	<i>[Handwritten Signature]</i> Name

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous college of University of Mysore)

JLB Road, Mysore-570005

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "**ARTICLE PUBLISHING AND EDITING SERVICES SYSTEM**" is the bonafide Project work carried out by **FAISAL KHALFAN SAIF ALOMAIRI (YBC20115)** student of BCA Yuvaraja's college, a constituent Autonomous college of Mysore.

During the year 2022-2023 in partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

#### Signature of Guides

1.

2.

Signature of Examiners	
DEPARTMENT OF COMPUTER SCIENCE	
YUVARAJA'S COLLEGE, MYSORE	
1.	VALUED
2.	
EXAMINERS: 1)	<i>[Signature]</i> 27/7/2023

*[Signature]*  
Signature of HOD  
Department  
Department of Computer Science  
Yuvaraja's College, MYSORE



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of The University of Mysore)  
JLB road, Mysore - 570 005.

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "AI BASED AGE AND GENDER DETECTION" is the Bonafide Project work carried out by SHARATHI KUMAR R (YBC20160) and SUDHANVA M L (YBC20166), students of VI semester BCA, Computer Science, Yuvaraja's College, a constituent Autonomous college, Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1. *Rose*  
27/7/23

2.

Signature of Examiners

1. DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE  
2. VALUED  
EXAMINERS: 1) *B* 27/7/2023  
2) *M* 27/7/2023

*Ille*  
Signature of HOD  
Head of the Department  
Department of Computer Science

# YUVARAJA S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "FIND THE MISSING KIDS" is the bonafide Project work carried out by G CHANDANA(YBC20116),AKSHITHA.P(YBC20103) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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2

Signature of Examiners

1

2

DEPARTMENT OF COMPUTER SCIENCE. YUVARAJA'S COLLEGE, MYSORE
<b>VALUED</b>
EXAMINERS: 1) <i>[Signature]</i>
2) <i>[Signature]</i>

*[Signature]*  
Department of Computer Science,  
Yuvaraja's College, MYSORE-570005  
Signature of HOD

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "CONTENT ADAPTIVE IMAGE EGANOGRAPHY USING CONVOLUTIONAL NEURAL NETWORK" is the bonafied Project work carried out by GOWTHAMI K S (YBC20118) and MANOJ L.(YBC20135) student of 3rd semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous College of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*[Handwritten Signature]*  
27/07/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1) *[Signature]* 27/7/2023  
2) *[Signature]* 27/7/2023

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA 'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE


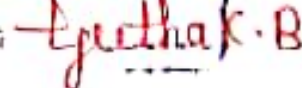
This is to certify that the project work entitled "HERBAL MEDICINAL PLANT IDENTIFICATION" is the bonafied Project work carried out by KUSUMA C P (YBC20126) and KAVYA K R (YBC20123) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1   
27/07/23

2

Signature of Examiners

1 DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE  
VALUED  
EXAMINERS: 1)   
2) 

  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "FILE ORGANIZER USING WINDOWS FORMS APPLICATION" is the Bonafide Project work carried out by ANKUSH J (YBC20104), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

Signature of Examiners

1

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

2

VALUED

EXAMINERS: 1)

2) Geetha K.B

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "PATIENT CENTRIC HEALTH FORMATION EXCHANGE FRAMEWORK USING AWS S3 SERVICE" is the bonafide project work carried out by HARSHITHA B S(YBC20119) and KIRAN R(YBC20124), students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

  
27/07/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) 

2)   
Geetha K. B

  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

Signature of HOD

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "MOTION DETECTION USING CNN" is the bonafied Project work carried out by ASHWINI B G (YBC20106) and GEETHANJALI M (YBC20117) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

1

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

2

VALUED

EXAMINERS: 1)

2) Geetha k. B

  
Signature of Head of Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "DIGITAL FORENSICS INVESTIGATION USING CLOUD BASED SERVICES(AWS)" is the bonafide Project work carried out by ANUSHA B(YBC20105) and BHAVANA P(YBC20108) student of semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous College of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1)

2) Geetha K. B

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-





# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore)



JLB Road, Mysore-570005



## CERTIFICATE

This is to certify that the project work entitled "FOOD WASTAGE MANAGEMENT SYSTEM" is the bonafide Project work carried out by LOHITH T G (YBC20128) and MAHESH M (YBC20132) student of VI semester BCA, Computer Science, at Yuvaraja s College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

### Signature of Guide

1		DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE <h2 style="text-align: center;">VALUED</h2>
2	EXAMINERS: 1)..... 2).....	

### Signature of Examiners

1		DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE <h2 style="text-align: center;">VALUED</h2>
2	EXAMINERS: 1)..... 2).....	

**Signature of HOD,**  
Head of the Department  
 Department of Computer Science  
 Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED EMAIL FOR BLIND" is the bonafied Project work carried out by RAJENDRA PRASAD K G (YBC20147) and PRASAD I (YBC20146) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Handwritten Signature]*  
2 *[Handwritten Signature]*

DEPARTMENT OF COMPUTER SCIENCE,  
Signature of Examiners  
1 *[Handwritten Signature]*  
2 *[Handwritten Signature]*  
EXAMINERS:  
*[Handwritten Signature]*

*[Handwritten Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "INTELLIGENT PREGNANCY ASSISTANT" is the bonafied Project work carried out by SHRI LAKSHMI M (YBC20162) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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2

Signature of Examiners

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DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1)	<i>[Signature]</i>
2)	<i>[Signature]</i>

*[Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE




### CERTIFICATE

This is to certify that the project work entitled "FITNESS TRAINER APPLICATION USING ARTIFICIAL INTELLIGENCE" is the bonafied Project work carried out by IRISHAL (YBC20168) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

Signature of Examiners

  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1).....

2).....

*Handwritten signatures and initials in red ink.*

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, II B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "ONLINE ART GALLERY" is the bonafide Project work carried out by RAVI KUMARA M (YBC20152) and SACHIN K S (YBC20155) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

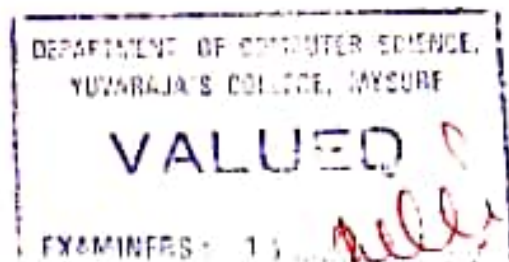
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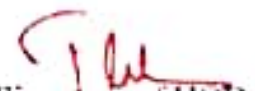
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Signature of Examiners

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Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED EMAIL FOR BLIND" is the bonafied Project work carried out by RAJENDRA PRASAD K G (YBC20147) and PRASAD I (YBC20146) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

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Signature of Examiners

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DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1).....	2).....

*Handwritten signatures in red ink are present over the stamp.*

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "AGRICULTURE SUPPORTIVE SYSTEM" is the benefited Project work carried out by RAMESH M (YBC20150) and VARALAKSHMI V (YBC20169) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

- 1
- 2

Signature of Examiners

- 1
- 2

DEPARTMENT OF COMPUTER SCIENCE YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1)	..... pulli
2)	.....

  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "AI-BASED FAKE JOB POST DETECTION USING RANDOM FOREST ALGORITHM" is the bonafied Project work carried out by NAVYASHEE D (YBC20139) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners  
DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

VALUED

2

EXAMINERS: 1)

2)

Signature of HOD

Department of Computer Science  
Yuvaraja's College, Mysore



# YUVARAJA'S COLLEGE

(Constituent Autonomous College of the University of Mysore, H.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

to certify that the project work entitled "SIGN LANGUAGE TO VOICE AND TEXT" is completed Project work carried out by RAKESH B K (YBC20148) student of VI semester Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree Bachelor of Computer Application.

Signature of Guide

*Rakesh B K*

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) *Rakesh B K*

2) *...*

*[Signature]*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "TASKIFY-INTELLIGENT TASK ANAGEMENT SYSTEM" is the bonafide Project work carried out by RAKESH K S (BC20149) and NIKHIL M (YBC20141) students of VI semester BCA, Computer Science, Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-23 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*Rakesh K S*  
21/7/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1) *Rakesh K S* 21/7/23  
2) *Nikhil M* 21/7/23

*[Signature]*  
Signature of HOD  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous college of the university of Mysore, JLB road, mysore-05)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "**ONLINE DYNAMIC HAND GESTURE RECOGNITION**" is the Bonafied Project work carried out by **NITHYA G S (YBC20143)** and **PRAJWAL R(YBC20145)** students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

#### Signature of Guide

1 *[Handwritten Signature]*  
2

*[Handwritten Signature]*  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

#### Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE  
2 VALUED  
EXAMINERS: 1) *[Handwritten Signature]*  
2) *[Handwritten Signature]*



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore)



JLB Road, Mysore-570005



## CERTIFICATE

This is to certify that the project work entitled "AN AI-BASED SYSTEM FOR BIRD AND DRONE DETECTION USING YOLO V4/V5 OBJECT DETECTION MODELS" is the bonafide project work carried out by MANU B R (YBC20136) and SHASHANK H R (YBC20161), students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

**Signature of Guide**

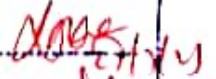

1  25/1/23

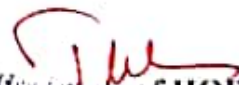
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**Signature of Examiners**

DEPARTMENT OF COMPUTER SCIENCE,  
1 YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS: 1).....   
2)..... 

  
**Signature of HOD,**  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "INTELLIGENT PORTAL FOR GOVERNMENT SCHEMES" is the bonafied Project work carried out by MEGHASHREE N AND REETHU M B student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

*[Handwritten Signature]*  
20/11/23

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) *[Handwritten Signature]*  
2) *[Handwritten Signature]*

*[Handwritten Signature]*

Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE

# YUVARAJA'S COLLEGE

(A Constituent Autonomous college of the university of Mysore, JLB road, mysore-05)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled **"A NOVEL INTRUSION DETECTING MODEL FOR DETECTING KNOWN AND INNOVATIVE CYBER ATTACKS USING CONVOLUTIONAL NEURAL NETWORK"** is the Bonafied Project work carried out by **NAGASHREEC (YBC20138)** and **RANJITHA C K(YBC20151)** students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1   
20/12/22

2

  
Signature of HOD

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE, YUVARAJA'S COLLEGE, MYSORE
2 VALUED
EXAMINERS: 1)..... 2).....

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

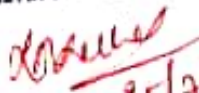
## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "BREAST CANCER COIMBRA" (Using Random Forest and Decision Tree) is the bonafied Project work carried out by ANCHANA K S (YBC20163) and NIRMALA BAI G(YBC20142) student of VI semester KCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.


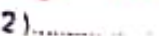
Signature of Guide

1   
25/7/23

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Signature of Examiners

  
Signature of HOD

DEPARTMENT OF COMPUTER SCIENCE  
1 YUVARAJA'S COLLEGE, MYSORE  
23/7/23  
VALUED  
2 EXAMINERS (1)   
2) 

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.R. Road, Mysore-570005)

DEPARTMENT OF COMPUTER SCIENCE



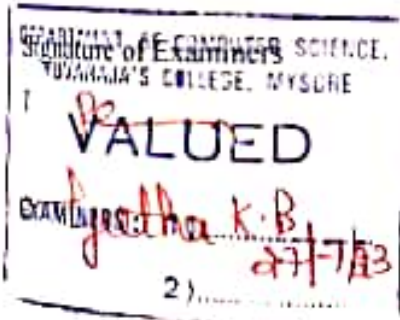
## CERTIFICATE

This is to certify that the project work entitled "CROP YIELD PREDICTION USING MACHINE LEARNING" is the bonafied Project work carried out by JEEVAN R (YBC20121) and HITHESH GOWDA B S (YBC20120) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *Prithvish*  
27/07/23

2



*G. M.*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "RETRO CAR ONLINE SALE VIA BIDDING" is the benefited Project work carried out by ADARSHA A(YBC20101) and MANOJ H N (YBC20133) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Handwritten Signature]*  
07/07/23

2

Signature of Examiners

1  
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DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE  
**VALUED**  
EXAMINERS: 1) *[Handwritten Signature]*  
2) *[Handwritten Signature]* Geetha K.B

*[Handwritten Signature]*  
Signature of HOD  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B. Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "GEOGRAPHICAL LOCATION WISE OPTIC FIBRE HUB CHECK AND UPDATE REPAIR DETAILS" is the Bonafide Project work carried out by CHANDRU H R (YBC20113), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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2

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

**VALUED**

EXAMINERS:  
1) K-B  
2) 27/7/23

Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.B. Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE


This is to certify that the project work entitled "MOBILE BASED INVENTORY MANAGEMENT SYSTEM USING QR CODE" is the Bonafede Project work carried out by AIAY V (YBC20102), student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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2

DEPARTMENT OF COMPUTER SCIENCE  
UNIVERSITY OF MYSORE  
**REVALUED**  
EXAMINER  
K. B. ...  
27/7/23

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



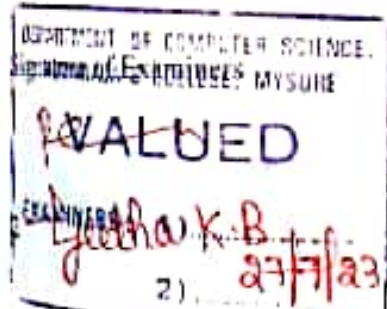
### CERTIFICATE

This is to certify that the project work entitled "CAR NUMBER PLATE RECOGNITION USING DEEP LEARNING" is the benefited Project work carried out by KISHAN AP(YBC20125) and MANOJ K M(YBC20154) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1.   
27/7/23

2.



  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-570005

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JLB Road, Mysore-570005)  
DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

This is to certify that the project work entitled "FINANCE PLANNING APPLICATION FOR EMPLOYEES" is the bonafied Project work carried out by MAHADEVASWAMY P (YBC20130) and MAHADEVSWAMY P R (YBC20131) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *(Signature)*

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DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF MYSORE
SIGNATURE OF EXAMINERS
1 <i>Pe</i>
2 <i>gatha k.B</i>
2)..... 27/7/23

*(Signature)*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-570005

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "FAKE LOGO DETECTION" is the bona fide Project work carried out by CHANDAN HM(YBC20109) and CHANDAN L(YBC20110) Students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1. *Meghana J*  
27/07/23

2

Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

1. *Revalued*

2. EXAMINERS  
*27/7/23*  
1) *K B*  
2) *27/7/23*

*[Signature]*  
Signature of HOD

Head of the Department  
Department of Computer Science,  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.I.B Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "DROWSINESS DETECTION SYSTEM" is the bonafide Project work carried out by LIKHITHA R (YBC20127) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *Dinkar*  
27/01/23

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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

1 VALUED

EXAMINERS: 1) *H* 27/1/2023  
2) *M*

*S*  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

# YUVARAJA'S COLLEGE

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DEPARTMENT OF COMPUTER SCIENCE



## CERTIFICATE

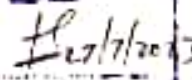
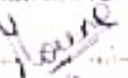
This is to certify that the project work entitled "EMOTION BASED MUSIC PLAYER" is the bonafied Project work carried out by SHANTHA KUMAR T M (YBC20159) AND SOFIYA P (YBC20174) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE YUVARAJA'S COLLEGE, MYSORE	
VALUED	
EXAMINERS: 1)	
2)	

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE, K



# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.H Road, Mysore-570005)

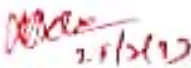
## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "HEART-BEAT RATE PREDICTION USING FACE VIDEO" is the bonafied Project work carried out by SOWJANYA S R (YBC20165) AND SURAJ D (YBC20167) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide


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2.1/2/23

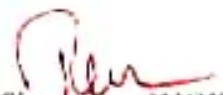
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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
1 YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1)  27/2/2023

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5

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(A Constituent Autonomous College of the University of Mysore, J.B. Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE


This is to certify that the project work entitled "AI BASED ATTENDANCE SYSTEM USING FACE RECOGNITION" is the bonafide Project work carried out by CHIANDANA S (YBC20111) student of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1

2

Signature of Examiners

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE.

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE

VALUED

EXAMINERS: 1) B 27/7/2023

M. K. S.

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, J.L.H Road, Mysore-570005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "OBJECT DETECTION FOR BLIND PEOPLE ASSISTANCE" is the bonafied Project work carried out by PAVAN RAJ A R (YBC20144) and ROHANT K (YBC20154) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfilment of the requirements for awarding the degree of Bachelor of Computer Application.

Signature of Guide

1 *[Handwritten Signature]*  
26/7/23

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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE,  
YUVARAJA'S COLLEGE, MYSORE  
*[Handwritten Signature]*  
**VALUED**  
2 *[Handwritten Signature]*  
EXAMINERS: 1).....  
2).....

*[Handwritten Signature]*  
Signature of HOD

Head of the Department  
Department of Computer Science  
Yuvaraja's College, Mysore-570005

# YUVARAJA'S COLLEGE

(A Constituent Autonomous College of the University of Mysore, JI B Road, Mysore-571005)

## DEPARTMENT OF COMPUTER SCIENCE



### CERTIFICATE

This is to certify that the project work entitled "VOICE BASED ATM" is the bonafied Project work carried out by SANDEEP M (YBC20157) AND YASHIWANTHI R H (YBC 20170) students of VI semester BCA, Computer Science, at Yuvaraja's College, a constituent Autonomous college of Mysore, during the year 2022-2023 in a partial fulfillment of the requirements for awarding the degree of Bachelor of Computer Application.

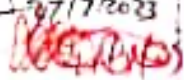

Signature of Guide


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Signature of Examiners

DEPARTMENT OF COMPUTER SCIENCE  
YUVARAJA'S COLLEGE, MYSORE

1 **VALUED**  
27/7/2023  
EXAMINERS: 1)   
2) 

  
Signature of HOD  
Head of the Department  
Department of Computer Science  
Yuvaraja's College, MYSORE-5