



Idhaya College for Women, Kumbakonam  
Accredited with A+ Grade by NAAC 1<sup>st</sup> Cycle

NAAC AQAR 2023-2024

**1.3 Curriculum Enrichment**

1.3.3 Number of Students Undertake Project Work /  
Field Works / Internships

## Project Work

Department of Computer Science

UG & PG

**IDHAYA COLLEGE FOR WOMEN**

Accredited with 'A+' Grade by NAAC - 1<sup>st</sup> Cycle

(Affiliated to Bharathidasan University, Tiruchirappalli)

Recognized by 2(f) & 12(B) of UGC Act 1956

An ISO 9001:2015 Certified Institution

**Kumbakonam – 612001.**

**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled **“EXPLORING THE LATEST TRENDS IN INDOOR LOCATION-BASED TECHNOLOGIES”** is a Bonafide record of project work done by **K. AARTHI (Reg. No: CB21S 205114)** and **R. ASHA (Reg. No: CB21S 205167)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*C. Premila Rosy*  
**INTERNAL GUIDE**

*C. Premila Rosy*  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**

M.Sc.,(CS), MCA.,M.Phil., M.Ed., M.A(Psy), SET.,Ph.D.,  
Head of the Department

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**Dr. C. PREMILA ROSY**

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**Examiners:**

1. *K. Arathi*.....
2. *C. Premila Rosy*.....

held on **27/2/2024**.....

# IDHAYA COLLEGE FOR WOMEN

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**DECODING CUSTOMER BEHAVIOR FOR BANKING TRANSACTIONS**” is a bonafide record of project work done by **K. ABINAYA (Reg. No: CB21S 205115)** and **C. BANUPRIYA (Reg. No: CB21S 205125)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 - 2024**.

*A. Subramanian*

**INTERNAL GUIDE**

ASSISTANT PROFESSOR  
PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam - 612 001.

*C. Premila Rosy*  
27/2/2024

**HEAD OF THE DEPARTMENT**

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Head of the Department  
PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. *le Ann* 27/2/2024
2. *A. Subramanian* 27.2.2024

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## DEPARTMENT OF COMPUTER SCIENCE



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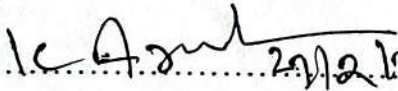
This is to certify that the project entitled “**DETECTING AND MITIGATING INJECTION ATTACKS IN WEB APPLICATIONS**” is a bonafide record of project work done by **R. ABINAYA (Reg. No: CB21S 205116)** and **A. DAISY RANI (Reg.No: CB21S 205127)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

  
**INTERNAL GUIDE**  
**ASSISTANT PROFESSOR**  
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**HEAD OF THE DEPARTMENT**  
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Viva-Voce Examination held on ..27/2/2024.....

Examiners:

1. .........27/2/24.....

2. .........27/2/24.....

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Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**GUARDING TRANSACTIONS: QR CODE ENCRYPTION FOR SECURE BILLING SYSTEMS**” is a bonafide record of Project work done by **D. ROOBALA (Reg. No: CB21S 205149)** and **S. ABINAYA (Reg. No: CB21S 205117)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

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**Dr. C. PREMILA ROSY**

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Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. Dr. A. S. Srinivasan.....

2. Dr. C. Premila Rosy.....

# IDHAYA COLLEGE FOR WOMEN

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “UNVEILING VULNERABILITIES AND SAFEGUARDING AGAINST SQL INJECTION THREATS” is a bonafide record of project work done by S. ABIRAMI (Reg. No: CB21S 205118) and A. ARSHIYA AFRIN (Reg. No: CB21S 205123) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*A. Nahyal*  
**INTERNAL GUIDE**  
**ASSISTANT PROFESSOR**  
PG and Research Department of Computer S  
Idhaya College for Women,  
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*e. p.* 23/2/24  
**HEAD OF THE DEPARTMENT**  
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Viva-Voce Examination held on ... 27/2/2024

Examiners:

1. *le Ar...* 27/2/24
2. *A. Nahyal* 27/2/24

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**INNOVATIVE TEXTUAL-GRAPHICAL AUTHENTICATION SOLUTIONS**” is a Bonafide record of project work done By **R. ABITHA (Reg. No: CB21S 205119)** and **J. HAMEEM RIMSHYA (Reg. No: CB21S 205131)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

**INTERNAL GUIDE  
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**HEAD OF THE DEPARTMENT**

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Viva-Voce Examination held on 27/12/2024.....

Examiners:

1. 27/12/24
2. 27/12/24

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “ADVANCES IN STEGANOGRAPHY DETECTION THROUGH PROGRESSIVE STRUCTURE ADAPTATION SYSTEMS” is a bonafide record of project work done by **A. AFRA (Reg. No: CB21S 205120)** and **S.R. DHARANI (Reg. No: CB21S 205128)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

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Head of the Department

Viva-Voce Examination held on 27/21/2024  
Idhaya College for Women, Kumbakonam-612 001.

**Examiners:**

1. 25/2/24

2. 25/2/24

**HEAD OF THE DEPARTMENT**

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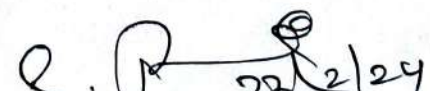
**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**


This is to certify that the project entitled “**TEMPSENSE: IOT-BASED TEMPERATURE MONITORING SYSTEM**” is a Bonafide record of project work done by **B. ANJALI (Reg. No: CB21S 205121)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

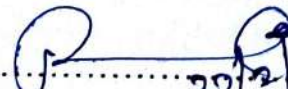
  
**INTERNAL GUIDE**  
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Viva-Voce Examination held on **.27/2/2024.**

Examiners:

1.  27/2/24

2.  27/2/24

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This is to certify that the project entitled “**EXPLORING INNOVATIONS IN BLOCKCHAIN IDENTITY VERIFICATION**” is a bonafide record of project work done by **R. ANUSHRI (Reg.No: CB21S 205122)** and **K. GAYATHRI (Reg. No: CB21S 205130)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

*A. G. G. G.*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,

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Kumbakonam- 612 001.

Viva-Voce Examination held on . *27/2/2024* .....

**Examiners:**

1. .... *A. G. G. G.* .....

2. .... *A. G. G. G.* *27/2/2024* .....

*C. P. R. R.*

**HEAD OF THE DEPARTMENT**

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*A. Nahyal*  
**INTERNAL GUIDE**  
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*R. Premila Rosy*  
**HEAD OF THE DEPARTMENT**  
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**Head of the Department**  
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Viva-Voce Examination held on ... *27/2/2024* ...

Examiners:

1. .... *le Ar...* .....
  2. *A. Nahyal* .....
- 27/2/24*

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “ADVANCEMENTS IN CHAOTIC ENCRYPTION FOR SELECTIVE IMAGE PROTECTION” is a bonafide record of project work done by **H. AYISHA SIDEEKA (Reg. No: CB21S 205124)** and **S. JANANI (Reg. No: CB21S 205133)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024.**

*S. [Signature]*

**INTERNAL GUIDE**

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*[Signature]*  
24/2/24

**HEAD OF THE DEPARTMENT**

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Head of the Department  
PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam-6

Viva-Voce Examination held on 27/2/2024

Examiners:

1. *K. Arul* 27/2/24
2. *S. [Signature]* 27/2/24

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*A. Kishore*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,  
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Kumbakonam- 612 001.

*C. Premila Rosy*  
27/2/24  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**

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Head of the Department  
PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. *U. Anand* 27/2/24.....

2. *A. Kishore* 27/2/2024.....

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This is to certify that the project entitled “**VERIFYING ENCRYPTED MESSAGES THROUGH STEGANOGRAPHY TECHNIQUES**” is a bonafide record of project work done by **G. CHARUMATHI (Reg. No: CB21S 205126)** and **G. KEERTHANA (Reg. No: CB21S 205136)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*A. Nalajal*

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**ASSISTANT PROFESSOR**

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Viva-Voce Examination held on ..*27/12/2024*..

*C. Premila R.*

**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA R.**

M.Sc.,(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.

**Head of the Department**

PG and Research Department of Computer Science..

Idhaya College for Women, Kumbakonam-612 001.

Examiners:

1. *le Azh...*

2. *A. Nalajal*  
*27/12/24*

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**HEAD OF THE DEPARTMENT**  
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Viva-Voce Examination held on 27/2/2024.....

Examiners:

1.  27/2/24
2.  27/2/24

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**Dr. C. PREMILA ROSY**

M.Sc.,(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,  
Head of the Department

Viva-Voce Examination held on 27/2/2024  
PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam-612001.

Examiners:

1. 20/2/24

2. 20/2/24

**HEAD OF THE DEPARTMENT**

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**HEAD OF THE DEPARTMENT**

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**Examiners:**

1. .... .....

2. .... 27/2/2024 .....

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**INNOVATIVE TEXTUAL-GRAPHICAL AUTHENTICATION SOLUTIONS**” is a Bonafide record of project work done By **R. ABITHA (Reg. No: CB21S 205119)** and **J. HAMEEM RIMSHYA (Reg. No: CB21S 205131)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

**INTERNAL GUIDE  
ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam- 612 001.

**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**

M.Sc.,(CS), MCA.,M.Phil., M.Ed., M.A(Psy), SET.

**Head of the Department**

PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. 27/2/24
2. 27/2/24

# IDHAYA COLLEGE FOR WOMEN

Accredited with 'A+' Grade by NAAC - 1<sup>st</sup> Cycle

(Affiliated to Bharathidasan University), Thiruchirappalli

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An ISO 9001:2015 Certified Institution

Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**HARNESSING BLOCKCHAIN TECHNOLOGY FOR TRANSPARENT TRANSACTIONS**” is a Bonafide record of project work done by **J. JAMASRI (Reg. No: CB21S 205132)** and **S. PAVITHRA (Reg. No: CB21S 205141)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

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Kumbakonam- 612 001.

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Viva-Voce Examination held on 27/2/2024

Examiners:

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2. .... .....

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “ADVANCEMENTS IN CHAOTIC ENCRYPTION FOR SELECTIVE IMAGE PROTECTION” is a bonafide record of project work done by **H. AYISHA SIDEEKA (Reg. No: CB21S 205124)** and **S. JANANI (Reg. No: CB21S 205133)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023 – 2024**.

*S. [Signature]*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**  
PG and Research Department of Computer Science  
Idhaya College for Women,  
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*[Signature]*  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**  
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**Head of the Department**  
PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam-6

Viva-Voce Examination held on 27/12/2024

Examiners:

1. .... *K. Anil* 27/12/24
2. .... *S. [Signature]* 27/12/24

# IDHAYA COLLEGE FOR WOMEN

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Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

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INTERNAL GUIDE

**DR. C. PREMILA ROSY**

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Viva voce Examination held on ...27/2/2024.....

Examiners:

1. 27/2/24

2. 27/2/24

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Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “ENHANCING TRANSPARENCY AND EFFICIENCY WITH BLOCKCHAIN TECHNOLOGY ” is a bonafide record of project work done by **G. KAVIYADHARSHINI (Reg. No: CB21S 205135)** and **M. PRIYADHARSHINI (Reg. No: CB21S 205143)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the VI Semester of academic year **2023 - 2024**.

*A. Lakshmi*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam- 612 001.

*Dr. C. Premila Rosy*  
27/2/24

**HEAD OF THE DEPARTMENT**

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Head of the Department

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Viva-Voce Examination held on ..27/2/2024.....

Examiners:

1. *b. Anand* 27/2/24

2. *A. Lakshmi* 27/2/24

**IDHAYA COLLEGE FOR WOMEN**

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**Kumbakonam – 612001.**

**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**VERIFYING ENCRYPTED MESSAGES THROUGH STEGANOGRAPHY TECHNIQUES**” is a bonafide record of project work done by **G. CHARUMATHI (Reg. No: CB21S 205126)** and **G. KEERTHANA (Reg. No: CB21S 205136)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

**INTERNAL GUIDE**

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Viva-Voce Examination held on ..27/2/2024.. Idhaya College for Women, Kumbakonam-612 001.

**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA**

M.Sc.,(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.

**Head of the Department**

PG and Research Department of Computer Science..

Examiners:

1. le Azh...

2. A. Nalini  
27/2/24

**IDHAYA COLLEGE FOR WOMEN**

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**LEVERAGING BLOCKCHAIN FOR SECURE AND TRANSPARENT E-VOTING SYSTEMS**” is a bonafide record of project work done by **M. MADHURA (Reg. No: CB21S 205137)** and **H. RAKSHANA HASMATH (Reg. No: CB21S 205145)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*S. Ganesan*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**  
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Kumbakonam - 612 001

*C. Premila Rosy*  
24/2/24

**HEAD OF THE DEPARTMENT**

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Head of the Department

Viva-Voce Examination held on 27/02/2024 PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam

Examiners:

1. .... *le Arul* .....

2. .... *S. Ganesan* / 27/2/24 .....

**IDHAYA COLLEGE FOR WOMEN**

Accredited with 'A+' Grade by NAAC - 1<sup>st</sup> Cycle

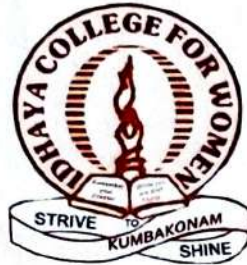
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**Kumbakonam – 612001.**

**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled **“REVOLUTIONIZING PATIENT DATAMANAGEMENT WITH BLOCKCHAIN TECHNOLOGY”** is a bonafide record of project work done by **S. PARKAVI (Reg. No: CB21S 205139)** and **R. RANJITHA (Reg. No: CB21S 205147)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*A. Nalajal*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

**PG and Research Department of Computer Science**

**Idhaya College for Women**

Viva-Voce Examination held on ....**27/12/2024**.....

*Dr. C. Premila Rosy*

**HEAD OF THE DEPARTMENT**

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**Examiners:**

1. *Dr. Arundhan*

2. *A. Nalajal*  
**27/12/24**

**IDHAYA COLLEGE FOR WOMEN**

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**INTERNAL GUIDE**

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Viva-Voce Examination held on 27/2/2024

Examiners:

1. 27/2/24
2. 27/2/24

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**INNOVATIVE SYSTEMS FOR PERSONALIZED RECIPE RECOMMENDATIONS IN DIET AND NUTRITION MANAGEMENT**” is a Bonafide record of project work done by **A. PREETHIKA (Reg. No: CB21S 205142)** and **N. RAMYA (Reg. No: CB21S 205146)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

  
INTERNAL GUIDE

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Idhaya College for Women,  
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HEAD OF THE DEPARTMENT

**Dr. C. PREMILA ROSY**


M.Sc.,(CS), MCA.,M.Phil., M.Ed., M.A(Psy), SET.,Ph.D.,  
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PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/12/2024.....

Examiners:

1. .........

2. .........

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## DEPARTMENT OF COMPUTER SCIENCE



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*A. hiba*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

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*Dr. C. Premila Rosy*  
27/2/24

**HEAD OF THE DEPARTMENT**

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Head of the Department

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Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. *Dr. A. Anand* 27/2/24

2. *A. hiba* 27/2/24

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**WORLDWIDE TRENDS UNVEILED: COLLABORATIVE FILTERING FRAMEWORKS FOR GLOBAL MARKET FORECASTING**” is a bonafide record of project work done by **R. SABITHA (Reg.No:CB21S 205151)** and **K. PUGAZHESWARI (Reg. No: CB21S 205144)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

INTERNAL GUIDE

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Viva-Voce Examination held on ...27/2/2024.....

Examiners:

1. .....
2. .....

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*S. Ganesan*  
**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**  
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Kumbakonam-612001

*C. Premila Rosy*  
**HEAD OF THE DEPARTMENT**

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Head of the Department  
PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam

Viva-Voce Examination held on **27/02/2024**

Examiners:

- 1. .... *le Arul...* .....
- 2. .... *S. Ganesan* .....  
*27/2/24*

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**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

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Idhaya College for Women,  
Kumbakonam- 612 001.

**HEAD OF THE DEPARTMENT**

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Head of the Department

PG and Research Department of Computer Science.,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/12/2024 ... Idhaya College for Women, Kumbakonam-612 001.

Examiners:

1. .... 27/12/24 .....

2. .... 27/12/24 .....

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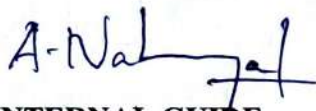
Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



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INTERNAL GUIDE

ASSISTANT PROFESSOR  
PG and Research Department of Computer Science  
Idhaya College for Women  
Kumbakonam - 612001

Viva-Voce Examination held on ..... 27/12/2024 .....




HEAD OF THE DEPARTMENT

Dr. C. PREMILA ROSY  
M.Sc.(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,  
Head of the Department  
PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam-612001

Examiners:

1.  .....

2.  .....

27/12/24

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INTERNAL GUIDE

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Examiners:

1. .....

2. .....

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Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “GUARDING TRANSACTIONS: QR CODE ENCRYPTION FOR SECURE BILLING SYSTEMS” is a bonafide record of Project work done by **D. ROOBALA (Reg. No: CB21S 205149)** and **S. ABINAYA (Reg. No: CB21S 205117)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

INTERNAL GUIDE

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Head of the Department

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**Dr. C. PREMILA ROSY**

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Head of the Department

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Idhaya College for Women, Kumbakonam-612001.

Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. .....

2. .....

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “ANALYZING THE E-MOTIONS HARNESSING SENTIMENT ANALYSIS FOR ONLINE LEARNING FEEDBACK” is a bonafide record of project work done by **R. ROSANA FARVEEN (Reg. No: CB21S 205150)** and **R. SNEKHA (Reg. No:CB21S 205156)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

**INTERNAL GUIDE**

**Dr. C. PREMILA ROSY**

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Viva-Voce Examination held on ...27/2/2024.....

Examiners:

1. .........

2. .........

# IDHAYA COLLEGE FOR WOMEN

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(Affiliated to Bharathidasan University, Tiruchirappalli)

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Kumbakonam – 612001.

## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**WORLDWIDE TRENDS UNVEILED: COLLABORATIVE FILTERING FRAMEWORKS FOR GLOBAL MARKET FORECASTING**” is a bonafide record of project work done by **R. SABITHA (Reg.No:CB21S 205151)** and **K. PUGAZHESWARI (Reg. No: CB21S 205144)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

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Examiners:

1. 27/2/24

2. 27/2/24

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*A. Lakshmi*

**INTERNAL GUIDE**

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*Dr. C. Premila Rosy*

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Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. *Dr. A. Lakshmi* 27/2/2024.....

2. *A. Lakshmi* 27/2/2024.....

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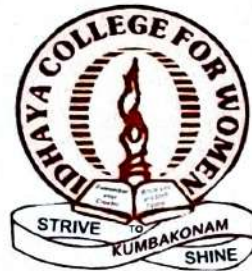
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*S. Gopi*

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*C. Premila Rosy*

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Examiners:

1. *le. Arul* 27/2/24

2. *S. Gopi* 27/2/24

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*A. Nalajal*

**INTERNAL GUIDE**

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*C. Premila Rosy*

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Examiners:

1. *K. Arundhaney* .....

2. *A. Nalajal* .....

*27/2/24*

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

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**INTERNAL GUIDE**

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23/2/24

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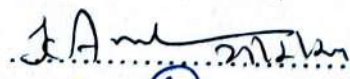
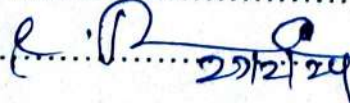
  
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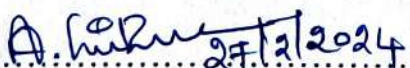
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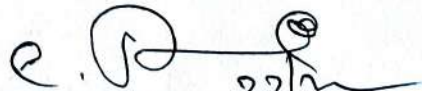


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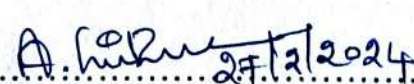
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Examiners:

1. le Arul 27/2/24

2. S. Sathithya 27/2/24

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*A. Nalajal*

**INTERNAL GUIDE**

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Viva-Voce Examination held on ... *27/2/2024* ...

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Examiners:

1. *C. Premila Rosy* .....

2. *A. Nalajal* .....

*27/2/24*

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## DEPARTMENT OF COMPUTER SCIENCE



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This is to certify that the project entitled “EMPOWERING WOMEN'S SELF-HELP GROUPS THROUGH CLUSTER-BASED INITIATIVES” is a bonafide record of project work done by **K. AARTHY (Reg. No: CB21S 205164)** and **G. SHANMUGAPRIYA (Reg. No: CB21S 205175)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

*S. Looi*

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Examiners:

1. *le Amul* .....

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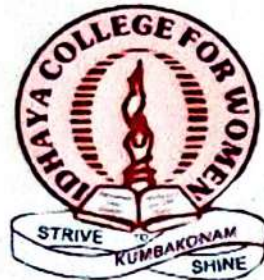
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INTERNAL GUIDE

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## DEPARTMENT OF COMPUTER SCIENCE



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This is to certify that the project entitled “SECURING TEXTS: DATA ENCRYPTION STANDARD FOR ENHANCED TEXT SECURITY” is a Bonafide record of project work done by N. AKILA (Reg. No: CB21S 205166) and B. SIVARANJANI (Reg. No: CB21S 205176) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of Bachelor of Science in Computer Science during the VI Semester of academic year 2023-2024.

  
**INTERNAL GUIDE**  
**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam-612 001.

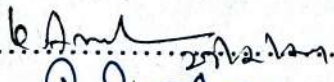
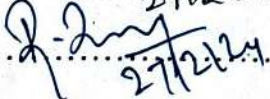
  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**  
M.Sc.,(CS).. MCA..M.Phil., M.Ed., M.A(Psy).. SET.  
Head of the Department

PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on 27/2/2024.....

Examiners:

1. .....
2. .....

# IDHAYA COLLEGE FOR WOMEN

Accredited with 'A+' Grade by NAAC - 1<sup>st</sup> Cycle

(Affiliated to Bharathidasan University, Tiruchirappalli)

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**EXPLORING THE LATEST TRENDS IN INDOOR LOCATION-BASED TECHNOLOGIES**” is a Bonafide record of project work done by **K. AARTHI (Reg. No: CB21S 205114)** and **R. ASHA (Reg. No: CB21S 205167)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

  
INTERNAL GUIDE

**Dr. C. PREMILA ROSY**

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Examiners:

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “MULTIRATING MASTERY: ENHANCING EMPLOYEE PERFORMANCE ASSESSMENT SYSTEMS” is a bonafide record of project work done by V. SUWETHA (Reg. No: CB21S 205177) and N. JANANI (Reg. No: CB21S 205169) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

INTERNAL GUIDE

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Examiners:

1. 27/2/24

2. 27/2/24

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**EDUCATIONAL CONTENT AND EVALUATION ALIGNED WITH E-LEARNING OUTCOMES**” is a bonafide record of project work done by **T.M. NEHA (Reg. No: CB21S 205171)** and **V. PRIYADHARSHINI (Reg. No: CB21S 205173)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

**INTERNAL GUIDE**

**Dr. C. PREMILA ROSY**

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Viva-Voce Examination held on 27/2/2024

Examiners:

1. 27/2/24

2. 27/2/24

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Kumbakonam – 612001.

**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**DECIPHERING EMOTIONS: SOCIAL MEDIA SENTIMENT ANALYSIS FOR MOOD CLASSIFICATION**” is a bonafide record of project work done by **S. ABI (Reg. No: CB21S 205165)** and **S. PAVITHIRA (Reg. No:CB21S 205172)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Computer Science** during the **VI Semester** of academic year **2023-2024**.

  
**INTERNAL GUIDE**

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M.Sc.,(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,

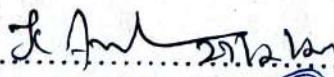
Head of the Department

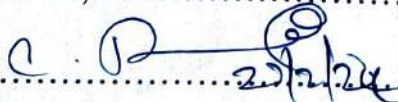
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Idhaya College for Women, Kumbakonam

Viva-Voce Examination held on ...27/2/2024... Idhaya College for Women, Kumbakonam

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1.  27/2/24

2.  27/2/24

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**INTERNAL GUIDE**  
**ASSISTANT PROFESSOR**

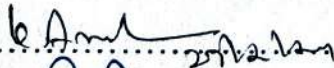

PG and Research Department of Computer Science,  
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Kumbakonam- 612 001.

  
**HEAD OF THE DEPARTMENT**

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Viva-Voce Examination held on 27/2/2024.....

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INTERNAL GUIDE

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PG and Research Department of Computer Science,

Viva-Voce Examination held on ...27/2/2024...

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “AI-DRIVEN CHATBOT SYSTEM FOR PERSONALIZED E-COMMERCE ASSISTANCE” is a bonafide record of project work done by ABINAYA. A (Reg.No: P22273701) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
INTERNAL GUIDE

**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science

Idhaya College for Women,  
Kumbakonam- 612 001.

  
HEAD OF THE DEPARTMENT


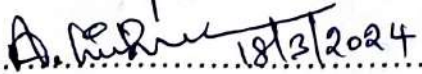
**Dr. C. PREMILA ROSY**

M.Sc.,(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,  
Head of the Department

PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612 001.

Viva-Voce Examination held on .....18.03.2024.....

Examiners:

1. .........18/3/24
2. .........18/3/2024

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

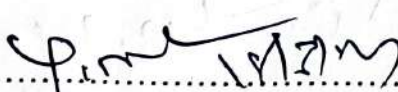
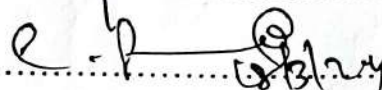
This is to certify that the project entitled “SMART LIGHT: ENVIRONMENT-SENSING STREET LIGHTING SYSTEM” is a bonafide record of project work done by **ABINAYA. A (Reg.No: P22273702)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
**INTERNAL GUIDE**  
**Dr. C. PREMILA ROSY**  
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**Head of the Department**  
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**HEAD OF THE DEPARTMENT**  
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Viva-Voce Examination held on 18.03.2024....

Examiners:

- 1. .....
- 2. .....

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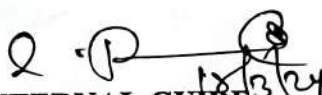
**Kumbakonam – 612001.**


**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

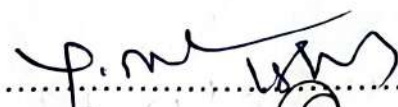
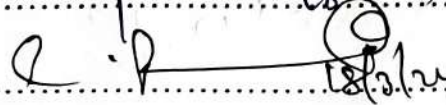
This is to certify that the project entitled “**SECURE ORGAN DONATION USING BLOCKCHAIN TECHNOLOGY**” is a bonafide record of project work done by **ABINAYA.N (Reg.No: P22273703)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
**INTERNAL GUIDE**  
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Viva-Voce Examination held on .....16.03.2024.....

Examiners:

1. .........
2. .........

A. Abinaya

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “INDOOR POSITIONING SYSTEM USING MAGNETIC FIELD MAP NAVIGATION AND ESTIMATION” is a bonafide record of project work done by ABINAYA. R (Reg.No: P22273704) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of Master of Science in Computer Science during the IV Semester of academic year 2023-2024.

*A. Abinaya*

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Kumbakonam- 612 001

*C. Premila Rosy*  
18/3/24

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Viva-Voce Examination held on 18-03-2024

Examiners:

1. *[Signature]*
2. *A. Abinaya* 18/3/2024

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**DESIGNING A MOVIE SUCCESS PREDICTION SYSTEM USING PYTHON**” is a bonafide record of project work done by **BHUVANA. K (Reg.No: P22273705)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

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Viva-Voce Examination held on ..... 18.03.2024 .....

Examiners:

1. .... 18/3/24 .....
2. .... 18/3/24 .....

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled "A SECURED FRAMEWORK FOR LAND REGISTRATION ON THE BLOCKCHAIN" is a bonafide record of project work done by BHUVANESHWARI. R (Reg.No: P22273706) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of Master of Science in Computer Science during the IV Semester of academic year 2023-2024.

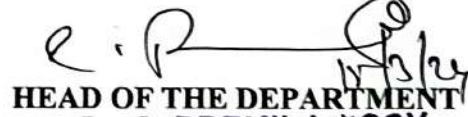
  
INTERNAL GUIDE

**Dr. C. PREMILA ROSY**

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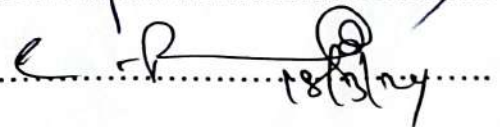
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**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**STRESS DETECTION IN IT PROFESSIONALS BY IMAGE PROCESSING AND ARTIFICIAL INTELLIGENCE**” is a bonafide record of project work done by **DURGA. V (Reg.No: P22273707)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*[Signature]*  
**INTERNAL SUPERVISOR**  
**Dr. C. PREMILA ROSY**  
M.Sc.,(CS).. MCA.,M.Phil., M.Ed., M.A(Psy).. SET.,Ph.D.,  
Head of the Department  
PG and Research Department of Computer Science.,  
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*[Signature]*  
**HEAD OF THE DEPARTMENT**  
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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**SENTIMENT ANALYSIS IN SOCIAL MEDIA DATA FOR EARLY DEPRESSION DETECTION**” is a bonafide record of project work done by **INDHUMATHI. S (Reg.No: P22273708)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*[Signature]*  
**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**  
PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam- 612 001

*[Signature]*  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROBY**  
M.Sc.(CS), MCA, M.Phil., M.Ed., M.A(Psyt).  
Head of the Department  
PG and Research Department of Comp  
Idhaya College for Women, Kumbakonam

Viva-Voce Examination held on 18.03.2024.....

Examiners:

- 1. .... *[Signature]* .....
- 2. .... *[Signature]* .....

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “DEEPFAKE FACE DETECTION USING MACHINE LEARNING” is a bonafide record of project work done by **INDUMATHY. B (Reg.No: P22273709)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*A. hithu*  
**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**  
PG and Research Department of Computer Science,  
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*C. Premila Rosy*  
**HEAD OF THE DEPARTMENT**

**Dr. C. PREMILA ROSY**  
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Head of the Department  
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Viva-Voce Examination held on 18-03-2024.....

Examiners:

1. *C. Premila Rosy*.....
2. *A. hithu*.....  
*18/3/2024*

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**BRAIN TUMOR DETECTION AND CLASSIFICATION USING HYBRID GENETIC ALGORITHMS AND ARTIFICIAL NEURAL NETWORKS**” is a bonafide record of project work done by **JANSI RANI. E** (Reg.No: **P22273710**) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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Viva-Voce Examination held on .....18.03.2024.....

Examiners:

1. ....

2. ....

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### BONAFIDE CERTIFICATE

This is to certify that the project entitled “UPI FRAUD DETECTION USING MACHINE LEARNING” is a bonafide record of project work done by **KALAIMAHAL. K** (Reg.No: P22273711) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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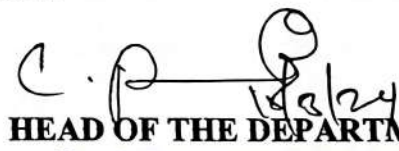
**Dr. C. PREMILA ROSY**

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HEAD OF THE DEPARTMENT

**Dr. C. PREMILA ROSY**

M.Sc.(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,

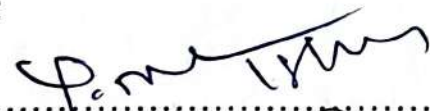
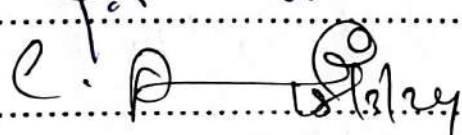
Head of the Department

PG and Research Department of Computer Science.,

Idhaya College for Women, Kumbakonam - 612 001.

Viva-Voce Examination held on 18-03-2024.....

Examiners:

1.  .....
2.  .....

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### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**SECURE AUTHENTICATION MECHANISM FOR DEDUPLICATED CLOUD STORAGE SYSTEMS WITH PASSWORD-PROTECTED ENCRYPTION KEYS**” is a bonafide record of project work done by **KANIMOZHI. R (Reg.No: P22273712)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*A. Nalajayalal*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

PG and Research Department of Computer Science,  
Idhaya College for Women,  
Kumbakonam- 612 001.

*e. P. Premila Rosy*

**HEAD OF THE DEPARTMENT**

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**Head of the Department**

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Viva-Voce Examination held on 18.03.2024

Examiners:

1. *P. Premila Rosy*

2. *A. Nalajayalal*

18/3/24

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**MULTI CROP CONVOLUTIONAL NEURAL NETWORKS FOR FAST LUNG NODULE SEGMENTATION**” is a bonafide record of project work done by **KAVITHA.M (Reg.No: P22273713)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

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Head of the Department

PG and Research Department of C.S.

Idhaya College for Women, Kumbakonam- 612 001.

Viva-Voce Examination held on 18.03.2024.....

Examiners:

- 1.
- 2.

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### BONAFIDE CERTIFICATE

This is to certify that the project entitled “ENHANCING COMPUTER-AIDED TEACHING THROUGH AUTOMATIC ANIMATION AND VISUALIZATIONS” is a bonafide record of project work done by **KIRUBASREE. V (Reg.No: P22273714)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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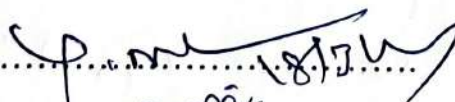

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Viva-Voce Examination held on 18.03.2024

Examiners:

1. 
2. 

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**INTEGRATING E-LEARNING OUTCOMES INTO TEACHING CONTENT AND ASSESSMENTS**” is a bonafide record of project work done by **LAKSHMI KEERTHIKA. H (Reg.No: P22273715)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*A. K. K.*

**INTERNAL GUIDE**

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*C. Premila Rosy*

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Viva-Voce Examination held on 18.03.2024.....

Examiners:

1. *[Signature]*.....

2. *A. K. K.* 18.3.2024.....

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “INTELLIGENT TRAFFIC SYSTEM FOR URBAN CONDITIONS USING REAL-TIME VEHICLE TRACKING” is a bonafide record of project work done by **MONIKA. S (Reg.No: P22273716)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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Viva-Voce Examination held on ...16.03.2024.....

Examiners:

1. ....  


2. ....  


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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**POWERTRACK: IOT-BASED ENERGY METER MONITORING**” is a bonafide record of project work done by **NARMADHA. K (Reg.No: P22273717)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
INTERNAL GUIDE

**Dr. C. PREMILA ROSY**

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Head of the Department

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Idhaya College for Women, Kumbakonam

  
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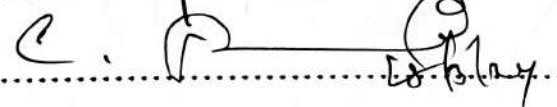
**Dr. C. PREMILA ROSY**

M.Sc.(CS), MCA, M.Phil., M.Ed., M.A(Psy), SET., Ph.D.,  
Head of the Department

PG and Research Department of Computer Science  
Idhaya College for Women, Kumbakonam

Viva-Voce Examination held on 18-03-2024

Examiners:

1. 
2. 

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “**ENHANCING ONLINE SHOPPING EXPERIENCE WITH AN AI-DRIVEN ECOMMERCE CHATBOT**” is a bonafide record of project work done by **PREETHI. M (Reg.No: P22273718)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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PG and Research Department of Computer Science.  
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Viva-Voce Examination held on .....18.03.2024.....

Examiners:

1. ....

2. ....

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**ENHANCING INVESTMENT STRATEGIES USING DEEP NEURAL NETWORKS**” is a bonafide record of project work done by **PRIYANGA. S (Reg.No: P22273719)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*A. Nahiyal*

**INTERNAL GUIDE**

**ASSISTANT PROFESSOR**

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Idhaya College for Women

Kumbakonam- 612 001

*Dr. C. Premila Rosy*

**HEAD OF THE DEPARTMENT**

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**Head of the Department**

PG and Research Department of Computer Science..

Idhaya College for Women. Kumbakonam-612 001

Viva-Voce Examination held on ....18:03:2024...

Examiners:

1. .... *P. N. Srinivas* .....

2. .... *A. Nahiyal* .....

*18/3/24*

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**EMPLOYEE LAYOFF PREDICTION USING RECURRENT NEURAL NETWORK**” is a bonafide record of project work done by **RAGAVI R (Reg.No: P22273720)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*[Signature]*  
**INTERNAL GUIDE**  
**Dr. C. PREMILA ROSY**  
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Head of the Department  
PG and Research Department of Computer Science.,  
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*[Signature]*  
**HEAD OF THE DEPARTMENT**  
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PG and Research Department of Computer Science.,  
Idhaya College for Women, Kumbakonam-612001.

Viva-Voce Examination held on ...**18.03.2024**....

Examiners:

- 1. .... *[Signature]* .....
- 2. .... *[Signature]* .....

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “DNA-BASED SELECTIVE IMAGE ENCRYPTION USING CHAOTIC VISUAL ENCRYPTION” is a bonafide record of project work done by **REENA MARY, M (Reg.No: P22273721)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.



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Viva-Voce Examination held on 18.03.2024

Examiners:

1. 

2. 

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## DEPARTMENT OF COMPUTER SCIENCE



### BONAFIDE CERTIFICATE

This is to certify that the project entitled “A NEURAL BASED APPROACH FOR DETECTING THE SITUATIONAL INFORMATION FROM TWITTER DURING DISASTER” is a bonafide record of project work done by **RENUKA DEVI, M** (Reg.No: P22273722) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

**INTERNAL GUIDE**

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Viva-Voce Examination held on ..... 18.03.2024 .....

Examiners:

1. .... 18/3/24 .....
2. .... 18/3/2024 .....

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “SECURE AND TRANSPARENT ASSESSMENT MANAGEMENT USING BLOCKCHAIN” is a bonafide record of project work done by **SAMPRITHA. R (Reg.No: P22273723)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*[Signature]*  
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Head of the Department  
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Idhaya College for Women, Kumbakonam

*[Signature]*  
HEAD OF THE DEPARTMENT

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Head of the Department  
PG and Research Department of Computer Science,  
Idhaya College for Women, Kumbakonam-612001.

Viva-Voce Examination held on 18.03.2024

Examiners:

- 1. *[Signature]* .....
- 2. *[Signature]* .....

A. N. N. N.

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**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “PATIENT ELECTRONIC HEALTH RECORDS USING BLOCK CHAIN SECURITY FRAMEWORK” is a bonafide record of project work done by **SARANYA. S (Reg.No: P22273724)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*A. N. N.*

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*C. Premila Rosy*

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Viva-Voce Examination held on 18.03.2024

**Examiners:**

1. *P. N. N.*
  2. *A. N. N.*
- 18/3/24

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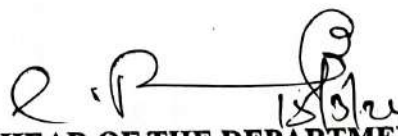
## DEPARTMENT OF COMPUTER SCIENCE



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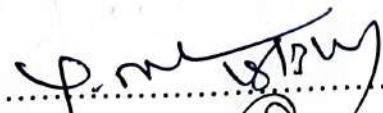
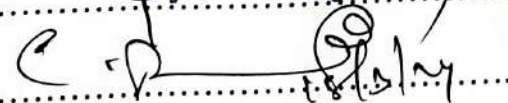
This is to certify that the project entitled “A STUDY ON NOVEL HYBRID SYSTEMS FOR TEXTUAL-GRAPHICAL AUTHENTICATION” is a bonafide record of project work done by SHIFA YASMIN, S (Reg.No: P22273725) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of Master of Science in Computer Science during the IV Semester of academic year 2023-2024.

  
**INTERNAL CHECKER**  
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Viva-Voce Examination held on ..... 18.03.2024.....

Examiners:

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2. ....  .....

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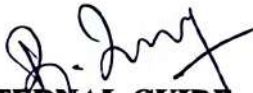
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This is to certify that the project entitled “OPTIMIZED DISTRIBUTION CENTER PLACEMENT USING ENHANCED BALD EAGLE ALGORITHMS” is a bonafide record of project work done by **SIVAPRIYA. R (Reg.No: P22273727)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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This is to certify that the project entitled “ENHANCING MARKET PREDICTION ACCURACY THROUGH COLLABORATIVE FILTERING TECHNIQUES” is a bonafide record of project work done by SNEHA, S (Reg.No: P22273728) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of Master of Science in Computer Science during the IV Semester of academic year 2023-2024.

  
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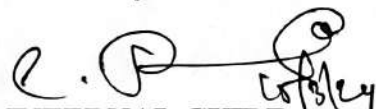
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### BONAFIDE CERTIFICATE

This is to certify that the project entitled “ANALYZING THE IMPACT OF CRM ON DIGITAL MARKETING COMMUNICATION EFFECTIVENESS” is a bonafide record of project work done by SURYA, W (Reg.No: P22273730) submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

  
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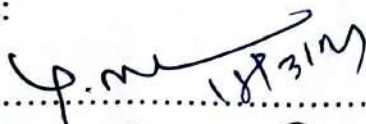

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Viva-Voce Examination held on .....18-03-2024.....

Examiners:

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2. .........

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**DEPARTMENT OF COMPUTER SCIENCE**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled “**STUDENT ENGAGEMENT PREDICTION IN ONLINE CLASSES USING IMAGE PROCESSING**” is a bonafide record of project work done by **SUWETHA. S (Reg.No: P22273731)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

*[Signature]*  
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Examiners:

- 1. .... *[Signature]* 18/3/24
- 2. .... *[Signature]* 18/3/24

HOD Premila

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### BONAFIDE CERTIFICATE

This is to certify that the project entitled "INNOVATIVE CLUSTER-BASED STRATEGIES FOR EMPOWERING WOMEN'S SELF-HELP GROUPS" is a bonafide record of project work done by **THAIYALNAYAGI. N (Reg.No: P22273732)** submitted to Bharathidasan University, Tiruchirappalli in partial fulfillment of the requirements for the award of degree of **Master of Science in Computer Science** during the **IV Semester** of academic year **2023-2024**.

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Viva-Voce Examination held on 18.03.2024.....

Examiners:

- 1. *[Signature]*.....
- 2. *[Signature]*.....