## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



### A PROJECT REPORT ON

"Breast Cancer Detection using CNN and Deep learning concepts"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE

# BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING

#### **Submitted By**

Majma Anjum	(1SV20CS021)
Habibulla S M	(1SV20CS013)
Pushpraj	(1SV20CS034)
Smriti Dewangan	(1SV20CS047)

Under the guidance of

Dr.R. Rajeswari M.E.,PhD

Professor, Dept. of CSE.



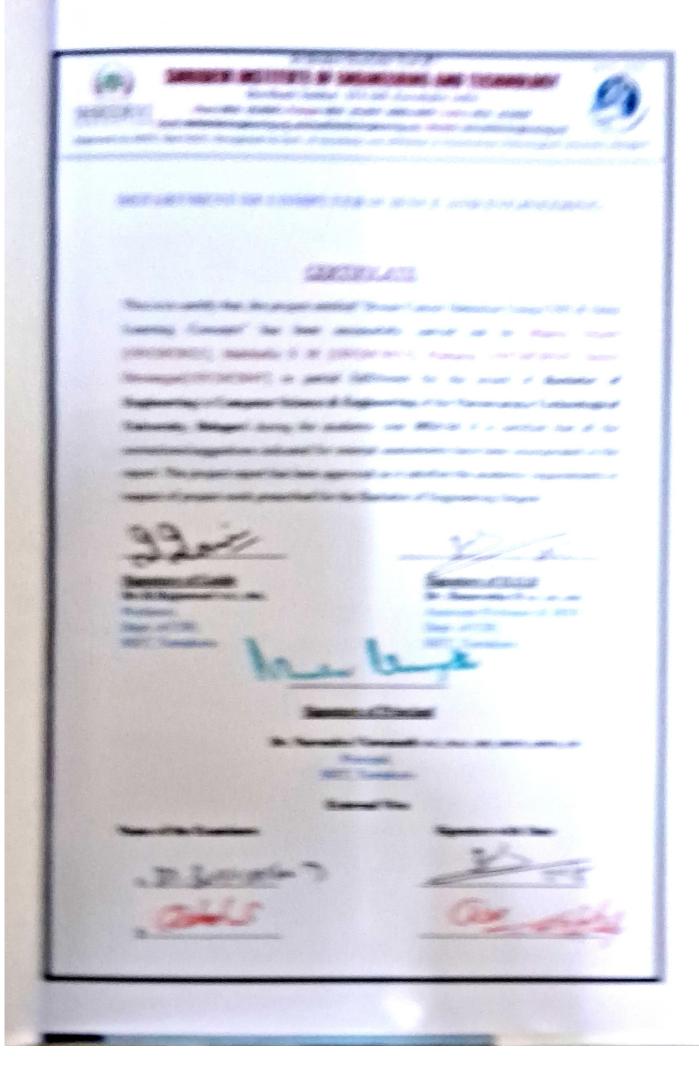
Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated To Visvesvaraya Technological University) Sira Road, Tumakuru – 572 106,

Karnataka.

2023-24



Sri Shridevi Charitable Trust (R.)

### **SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **CERTIFICATE**

This is to certify that, the project entitled "Breast Cancer Detection Using CNN & Deep Learning Concepts" has been successfully carried out by Majma Anjum [ISV20CS021], Habibulla S M [ISV20CS013], Pushpraj [ISV20CS034], Smriti Dewangan[ISV20CS047] in partial fulfillment for the award of Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-24. It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Dr.R.Rajeswari ME, PhD,

Professor,

Dept. of CSE, SIET, Tumakuru. Signature of H.O.D

Dr. Basavesha D BE, ME, PHD,

ESTD: 2002

Associate Professor & HOD

Dept. of CSE, SIET, Tumakuru.

Signature of Principal

Dr. Narendra Viswanath M.E., Ph.D., MIE, MISTE, MIWS., FIV. Principal,

SIET, Tumakuru

**External Viva** 

Name of the Examiners

Signature with Date

. Dr. Scravelha D

2 Roberts

Que 29/8/24

Sri Shridevi Charitable Trust (R.)



### SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org (Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### **DECLARATION**

We, Majma Anjum [1SV20CS021], Habibulla S M[1SV20CS013], Pushpraj [1SV20CS034], Smriti Dewangan [1SV20CS047], student of VIII semester B.E in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the project work-II entitled "Breast Cancer Detection using CNN & Deep learning Concepts", embodies the report of our project work carried out by our team under the guidance of Dr.R.Rajeswari, Professor, Department of CSE, SIET, Tumkur as partial fulfillment of requirements for the award of the degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2023-24. The project has been approved as it satisfies the academic requirements in respect to the Project work.

Place: Tumakuru

Date: 29/05/2024

Student Name & Signature

Smriti Dewangan [1SV20CS047] .

Majma Anjum [1SV20CS021] Majma danjum
Habibulla S.M [1SV20CS013]

Pushpraj [1SV20CS034]

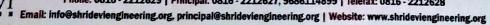
Pushpraj

Sri Shridevi Charitable Trust (R.)

### SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628



ESTD: 2002

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

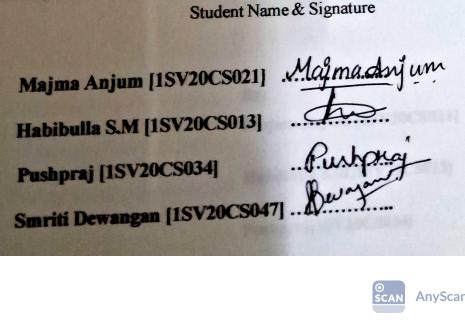
### **DECLARATION**

We, Majma Anjum [1SV20CS021], Habibulla S M[1SV20CS013], Pushpraj [1SV20CS034], Smriti Dewangan [1SV20CS047], student of VIII semester B.E in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the project work-II entitled "Breast Cancer Detection using CNN & Deep learning Concepts", embodies the report of our project work carried out by our team under the guidance of Dr.R.Rajeswari, Professor, Department of CSE, SIET, Tumkur as partial fulfillment of requirements for the award of the degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2023-24. The project has been approved as it satisfies the academic requirements in respect to the Project work.

Place: Tumakuru

Date: 29/05/2024

Student Name & Signature





### **ACKNOWLEDGEMENT**

This project work will be incomplete without thanking the personalities responsible for this venture, which otherwise would not have become a reality.

We express our profound gratitude to Dr. Narendra Viswanath, Principal, S.I.E.T, for his moral support towards completing our project work.

We would like to thank Head of Department Dr. Basavesha D. Head of Department of CSE, SIET for providing all the support and facility.

We would like to thank my guide Dr.R.Rajeswari, Professor, Department of Computer Science and Engineering, SIET for her help, sharing her technical expertise and timely advice.

We wholeheartedly thank, Mr. Girish L, Head of Department of Artificial Intelligence and Data Science, Project Coordinator, SIET for the support.

I would like to thank Mrs. Rashmi N, Assistant Professor, Department of CSE, SIET, Tumkur for the help, sharing her timely advice.

We would like to express our sincere gratitude to all teaching and non-teaching faculty of the department of CSE for guiding us throughout the course of this project by giving valuable suggestions and encouragement.

By,

Majma Anjum [1SV20CS021]

Habibulla S.M[1SV20CS013]

Pushpraj[1SV20CS034]

Smriti Dewangan[1SV20CS047]