VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



INTERNSHIP REPORT ON

"HEART DISEASE PREDICTION USING MACHINE LEARNING"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE INTERNSHIP

BACHELOR OF ENGINEERING IN INFORMATION SCIENCE & ENGINEERING

Submitted By

YASHASWINI K N (1SV18IS001)

Under the guidance of

Mr. Girish L

Assistant Professor, Dept. of CSE.



Department of Information Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Affiliated To Visvesvaraya Technological University)
Sira Road, Tumakuru – 572106, Karnataka.

2022-2023

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 572106



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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY Recognised by Govt, of Karnataka, Affiliated to VTU, Betagay, and Approved by AICTE. New Delhi:



Sira Road, Tumakuru - 572 106. Karnataka

Phone 0816-2212629 | Fax 08-6-2212628 | Email info@shindeviengineering org | Web http://www.shrideviengineering.org

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, Internship project report of entitled "HEART DISEASE PREDICTION USING MACHINE LEARNING" has been successfully carried out by YASHASWINI KN[1SV18IS001], in partial fulfillment for the Internship project report of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The Internship - Project report has been approved as it certifies the academic requirements in respect of Internship-Project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Mr. Girish L

Assistant Professor, Dept. of CSE,

SIET, Tumakuru.

Signature of H.O.D

Dr. Suhas G K BE., MTech., PhD,

Associate Professor & HOD Dept. of ISE,

SIET. Tumakuru.

Name of the Examiners

, Naveen X

Signature with date

ENGINEERING AND TECHNOLOGY TUMKUR - 572106.



Sri Shridevi Charitable Trust (R.)





Sira Road, Tumakuru - 572 106. Karnataka

Phone 0816-2212629 | Fax. 0816-2212628 | Email: info@shrideviengineering.org | Web http://www.shrideviengineering.org

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DECLARATION

I. YASHASWINI KN [1SV18IS001], student of VITsemester B.E in Information Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the Internship-Project work entitled "HEART DISEASE PREDICTION USING MACHINE LEARNING", embodies the report of our Internship-Project work carried out under the guidance of Mr. Girish L, Assistant Professor, Department of CSE, SIET, Tumakuru as partial fulfillment of requirements for the Internship Project report in Bachelor of Engineering in Information Science & Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2022-23. The Internship-Project has been approved as it satisfies the academic requirements in respect to the Internship-Project work.

Place: Tumakuru

Student Name & Signature

Date: 36 05 2023

PRINCIPAL SHRIDEVI INSTITUTE OF **ENGINEERING AND TECHNOLOGY** TUMKUR - 572106



O Skill & Career Development Centre, Room No. 3, Ground Floor, SIET Campus, Sira Road, Tumakuru - 572 106, Karnataka.

c: 0816-2211642

: www.ahritek.com

: shritekinnovations@gmail.com

Date: 10/10/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.YASHASWINI K Nbearing USN1SV18IS001Student of Shridevi Institute of Engineering & Technology has successfully completed internship from 29-08-2022 to 24-09-2022.

During the period of her internship program with us, she hasworked in the area of DevOps, Data Science and Machine Learning.

We wish every success in her career.

For ShriTEK Innovations

Authorized Signature

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Abstract

The key task within the healthcare field is usually the diagnosis of the disease. In case, a disease is actually diagnosed at earlier stage, then many lives might be rescued. Machine precise and easy diagnosis of various diseases. Consequently, saving time both formed professionals and patients. As heart disease is usually the most recognized killer in the present day, it might be one of the most challenging diseases to diagnose. In this paper, we provide a survey of the various machine learning classification techniques that have been proposed to assist the healthcare professionals in diagnosing the cardiovascular disease. We started by giving the overview of various machine learning techniques along with describing brief definitions of the most commonly used classification techniques to diagnose heart disease. Then, we review representable research works on employing machine learning classification techniques in this field. Furthermore, a detailed comparison table of the surveyed papers is actually presented.

<u>Keywords</u>: SVM; Naive Bayes; Decision Tree; Random Forest; LogisticRegression; python programming; confusion matrix; correlation Matrix.

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