

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belagavi-560014, Karnataka



PROJECT REPORT ON

**“ PARKINSON’S DISEASE DETECTION USING MACHINE
LEARNING ”**

*SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
PROJECT*

**BACHELOR OF ENGINEERING
IN
INFORMATION SCIENCE & ENGINEERING**

Submitted By

VINAY KUMAR K S (1SV19IS027)

SNEHA H T (1SV19IS020)

MAMATHASHREE H (1SV19IS008)

VARSHITHA R (1SV19IS025)

Under the guidance of

Dr. SUHAS G K BE.,M.Tech.,Phd

HOD & Associate Professor,
Dept. of ISE.SIET, Tumakuru.



**SHRIDEVI
EDUCATION**

Department of Information Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated To Visvesvaraya Technological University)

Sira Road, Tumakuru – 572106, Karnataka.

2022-2023

[Handwritten Signature]

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

ESTD: 2002



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, Internship project report of entitled "PARKINSON'S DISEASE DETECTION USING MACHINE LEARNING" has been successfully carried out by VINAY KUMAR K S[ISV19IS027], SNEHA H T[ISV19IS020], MAMATHASHREE H[ISV19IS008], VARSHITHA R[ISV19IS025] in partial fulfillment for the 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 Project report has been approved as it certifies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Suhas G.K

Signature of Guide

Dr. Suhas G K BE., M.Tech., Phd
Assistant Professor & HOD
Dept. of ISE,
SIET, Tumakuru.

Suhas G.K

Signature of H.O.D

Dr. Suhas G K BE., M.Tech., Phd
Associate Professor & HOD
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Narendra Viswanath

Signature of Principal

Dr. Narendra Viswanath M.E., Ph.D., MIE, MISTE, MIWS, FIIT
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Name of the Examiners

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2. *Merlin B*

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1410 2002



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

DECLARATION

We, **VINAY KUMAR KS [1SV19IS027], SNEHA HT [1SV19IS020], MAMATHASHREE H[1SV19IS008], VARSHITHA R[1SV19IS0025]** student of VIII semester **B.E** in Information Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the Project work entitled “ **PARKINSON’S DISEASE DETECTION USING MACHINE LEARNING**”, embodies the report of our Project work carried out under the guidance of **Dr. Suhas G K**, Assistant Professor, & HOD Department of ISE, SIET, Tumakuru as partial fulfillment of requirements for the Project report in **Bachelor of Engineering in Information Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The Project has been approved as it satisfies the academic requirements in respect to the Project work.

Place: Tumakuru

Student Name & Signature

Date:

VINAY KUMAR K S [1SV19IS027].....*Vinay Kumar*

SNEHA HT [1SV19IS020].....*Sneha H.T.*

MAMATHASHREE H[1SV19IS008].....*Mamtha*

VARSHITHA R [1SV19IS025].....*Varshitha*

Mamtha

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ACKNOWLEDGEMENT

This Project 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 Internship-Project work.

We would like to thank Head of Department **Dr. Suhas G K** Head of Department of ISE, SIET for providing all the support and facility.

We would like to thank my guide **Dr. Suhas G K**, HOD & Associate Professor of Department of information Science and Engineering, SIET for his help, sharing his technical expertise and timely advice.

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

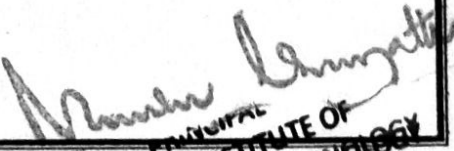
By,

VINAY KUMAR K S [1SV19IS027]

SNEHA H T [1SV19IS020]

MAMATHASHREE H [1SV19IS008]

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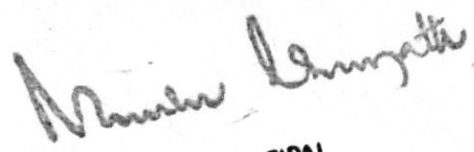
This is to certify that **Mr. VINAY KUMAR K S** bearing USN **1SV19IS027** Student of **Shridevi Institute of Engineering and Technology** has successfully completed his Project Work titled "Parkinson's Disease Detection Using Machine Learning".

We wish every success in his career.

For ShriTEK Innovations


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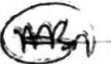
Date: 23/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. SNEHA H T** bearing USN **1SV19IS020** Student of **Shridevi Institute of Engineering and Technology** has successfully completed her Project Work titled **"Parkinson's Disease Detection Using Machine Learning"**.

We wish every success in her career.

For ShriTEK Innovations



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Date: 23/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. VARSHITHA R** bearing USN **1SV19IS025** Student of **Shridevi Institute of Engineering and Technology** has successfully completed her Project Work titled "Parkinson's Disease Detection Using Machine Learning".

We wish every success in her career.

For ShriTEK Innovations

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Manish Kumar

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ABSTRACT

Parkinson's disease is a progressive neurodegenerative disorder that affects millions of individuals worldwide. characterized by a large number of motor and non- motor features that can impact on function to a variable degree. Early detection of Parkinson's disease is crucial for effective treatment and management of the condition. In recent years, machine learning techniques have shown promising results in the field of medical diagnosis, including Parkinson's disease detection. This report presents a comprehensive analysis of the application of machine learning algorithms for the detection of Parkinson's disease. The primary objective is to develop a reliable and accurate model that can assist in the early detection of Parkinson's disease based on various clinical features and biomarkers. This project is effectiveness of using classification algorithms to accurately diagnose individuals with the disease.


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