VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka

A PROJECT REPORT ON

"PARKINSON'S DISEASE PREDICTION USING ADAPTIVE QUANTUM COMPUTING"

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

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

Submitted By

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, the project entitled **"PARKINSON'S DISEASE PREDICTION USING ADAPTIVE QUANTUM COMPUTING"** has been successfully carried out by MANASA.V [1SV17CS0024], MEGHANA.G.S [1SV18CS028], PRAGNA H.S [1SV18CS031], SHIREESHA HEGDE H R [1SV19CS400], in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2021-22.** 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 **Final Project** prescribed for the Bachelor of Engineering Degree.

23/7/22

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ABSTRACT

Dementia is the most dangerous disease which will affect the human nervous system. Parkinson's is one of the most occupied space in dementia. It will affect complete operational behavior of the patient. Using machine learning and the quantum computing the proposed system is working on implementing the speech signal-based implementation on the Parkinson's disease prediction. The prediction involves the four major algorithms of the machine learning like Naïve Bayes, KNN, Decision trees and Artificial Neural Networks. Some of the ensemble learning models in machine learning used for the increment of the accuracy of the models by combining several combinations of the models. The performance of the model will be decided using the standard dataset from UCI machine learning repository. The ensemble models overcome the accuracy of the most accurate method like neural networks. The proposed system consists of the multi-layer perceptron which is one of the most relevant optimization methods in the machine learning.

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