PREDICTION OF HEART DISEASE USING MACHINE LEARNING

A Project report submitted in partial fulfilment of the requirements for the award of degree

of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

CH. TULASI

T. VENNELA SRI SAI

S. SAI SRIRAM

CH. RAMANA

Regd.No.18811A0406 Regd.No.18811A0432 Regd.No.18811A0430 Regd.No.19815A0432

Under the guidance of

Mr. V.SURESH, M.Tech

ASSISTANT PROFESSOR



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

(NAAC Accredited, Approved by A.I.C.T.E, Permanently

Affiliated to J.N.T.U.KAKINADA)

TAMARAM (P.O), MAKAVARAPALEM (M.O), NARSIPATNAM (R.D) VISAKHAPATNAM DISTRICT-531113 2018-2022

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DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the project entitled "PREDICTION OF HEART DISEASE USING MACHINE LEARNING" in partial fulfilment for the of degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING. at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is a bonafied work carried out by CH.TULASI (18811A0406), E.VENNELA SRI SAI (18811A0432), S. SAI SRIRAM (18811A0430), CH.RAMANA (19815A0432) under the guidance and supervision during 2018-2022.

V. PROJECT GUIDE

Mr V. SURESH, M.Tech Assistant professor

HEAD OF THE DEPARTMENT

HEAD OF THE DEPARTMENT Dr. E.GOVINDA, M.Tech ,Ph.D

EXTERNAL EXAMINER

ABSTRACT

In recent times, heart disease prediction is one of the most complicated tasks in medical field. In the modern era, approximately one person dies per minute due to heart disease. Data science plays a crucial role in processing huge amount of data in the field of healthcare. As heart disease prediction is a complex task, there is a need to automate the prediction process to avoid risks associated with it and alert the patient well in advance. This paper makes use of heart disease dataset available in UCI machine learning repository. The proposed work predicts the chances of heart disease and classifies patient's risk level by implementing different data mining techniques such as Decision Tree, Logistic Regression and Random Forest. Thus, this project presents a comparative study by analyzing the performance of different machine learning algorithms.