DESIGN AND IMPLEMENTATION OF WEB BASED MACHINE

LEARNING MODEL FOR THE PREDICTING OF HEART DISEASE

BY

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SUBMITTED TO THE

DEPARTMENT OF COMPUTER SCIENCE

FACULTY OF PHYSICAL SCIENCE

UNIVERSITY OF BENIN,

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**CERTIFICATION**

This is to certify that **IDAHOSA JEREMIAH EFE** with matriculation **PSC1808835,** carried out this project work under the supervision and it is adequate in scope and the content for the award of Bachelor of Science (B.Sc.) Degree in Computer Science, University of Benin, Benin City.

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This project work was carried out by **IDAHOSA JEREMIAH EFE** with matriculation **PSC1808835**, is hereby approved by the Department of Computer Science, Faculty of Physical Sciences, University of Benin, Benin City, in partial fulfillment of the award of the Bachelor of Science (B.Sc.) Degree in Computer Science.

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**DATE DATE**

**DEDICATION**

This project work is dedicated to the Almighty God for his divine wisdom and who is my source of strength and happiness, for his mercies that kept me.

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My most sincere gratitude to God almighty, the soured of my finance and whose grace saw me through all the different levels.

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**ABSTRACT**

In this Project a research was carried on heart disease from data analytics point of view. Prediction of heart disease is a very recent field as the data is becoming available. Other researchers have approached it with deferent techniques and methods. We used data analytics to detect and predict disease's patients. Disease diagnosis is the most critical task in the medical diagnosis system. At present, the biggest challenge is to predict heart disease very quickly; for that limitation, the number of dying people is increasing day by day. If a heart disease is diagnosed quickly, we can reduce the death rate indisputably. Thus, this research produces a manual and web-based automatic prediction system that can confer a conceptual report of clear warning of patient's heart condition. The proposed prediction system predicts heart disease using some health parameters. The system uses thirteen health parameters like age, sex, chest pain type, blood pressure, ECG, etc. The algorithm used to diagnose heart disease accurately is SVM. This research also established a website to easily check their heart condition from home instantly. The system has used 1026 individual patients' data for training and testing.

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