Kiet Group Of Institutions

A Mini Project Report

On

“Heart Disease Prediction”

from

We Are Hackers

Team

Exploratory Data Analysis

Submitted by

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ABSTRACT

This report represents the mini-project assigned to given by the department of electronics and communications engineering, KIET. Cardiovascular diseases are the most common cause of death worldwide over the last few decades in the developed as well as underdeveloped and developing countries. Early detection of cardiac diseases and continuous supervision of clinicians can reduce the mortality rate. However, it is not possible to monitor patients every day in all cases accurately and consultation of a patient for 24 hours by a doctor is not available since it requires more sapience, time and expertise. In this project, we have developed and researched about models for heart disease prediction through the various heart attributes of patient and detect impending heart disease using exploratory data analysis techniques

further evaluating the results using confusion matrix and cross validation. The early prognosis of cardiovascular diseases can aid in making decisions on lifestyle changes in high risk patients and in turn reduce the complications, which can be a great milestone in the field of medicine.

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1.EDA - Exploratory Data Analysis.

2.CSV – Comma Seperated Values

CHAPTER 1: Introduction

According to the World Health Organization(WHO) we are having the List of Heart Disease Patients of Some area.

We are taking these details as the Heart Failure Prediction in the Following Data.

1.1 : Problem Definition :

We are Importing Pandas as pd and Seaborn as sns

1.2 : We are taking the Whole data as heart.csv

1.3 : By using pandas we store the CSV data as a table.

2 Analysing the Data

By Using sns we store the data of Resting BP of the Heart Disease Patients with Maximum Heart Rates as Bar Graph as Shown in Fig 1.

Syntax => sns.displot(w[‘RestingBp’])

And then By Using sns Only we also store the Resting BP of the Total Count Of Patients as Bar Graph as Shown in Fig 2.

Syntax => sns.displot(w[‘MaxHR’])

3.Data Sets

Here we Combining the above two Graphs.. using Syntax

- ⇨ Sns.jointplot(w[‘RestingBP’],w[‘MaxHR’])
- ⇨ Fig1. + Fig2. = Fig3

And we dividing the part of the bar Graphs using Syntax =>
sns.pairplot(w[[‘RestingBp’,’MaxHR’]])
as Shown in Fig4.

4. Discussion on the Result.

As we see here Heart Patients with RestingBp and MaxHR are More

5.Conciusion:

As per WHO we divided the Data is given by client , we separated the and Data Analysied using the Given Comma Seperated Values(CSV)