

HEART DISEASE DIAGNOSTIC ANALYSIS

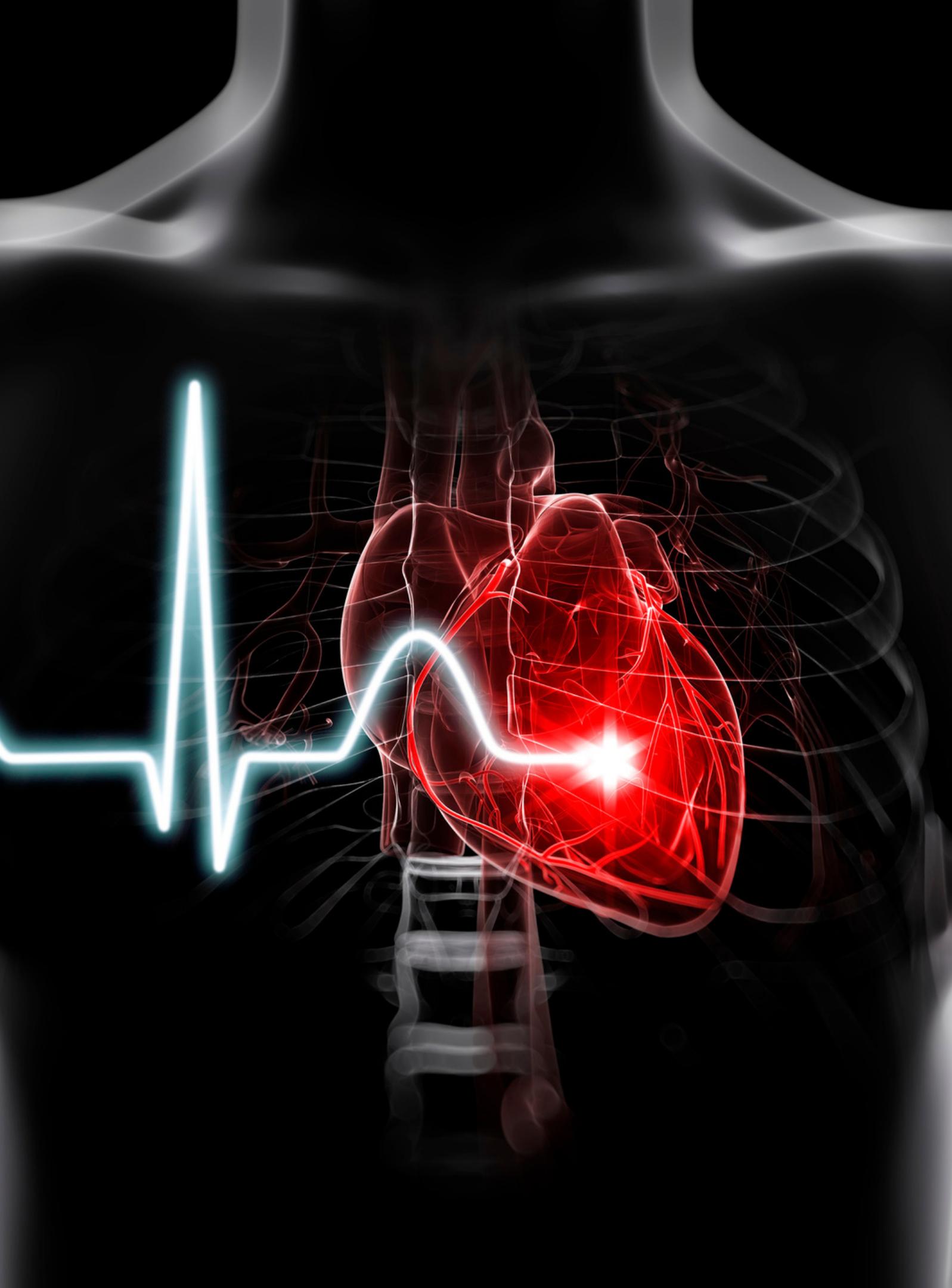


-PREET JITENDRA JAIN



PROJECT DETAILS

Project Title	Heart Disease Diagnostic Analysis
Technology	Data Science
Domain	Healthcare
Project Difficulty Level	Intermediate
Programming Language used	Python
Tools Used	Google Colab, Power BI, Excel, Canva



INTRODUCTION

Health is real wealth in the pandemic time we all realized the brute effects of covid-19 on all irrespective of any status. You are required to analyze this health and medical data for better future preparation.



DATASET INFORMATION

- Age: The person's age in years
- Sex: The person's sex (1 = male, 0 = female)
- Cp: The chest pain experienced (Value 1: typical angina, Value 2: atypical angina, Value 3: non-anginal pain, Value 4: asymptomatic)
- Trestbps: The person's resting blood pressure (mm Hg on admission to the hospital)
- Exang: Exercise induced angina (1 = yes; 0 = no)
- Oldpeak: ST depression induced by exercise relative to rest
- ca: The number of major vessels (0-3)

DATASET INFORMATION

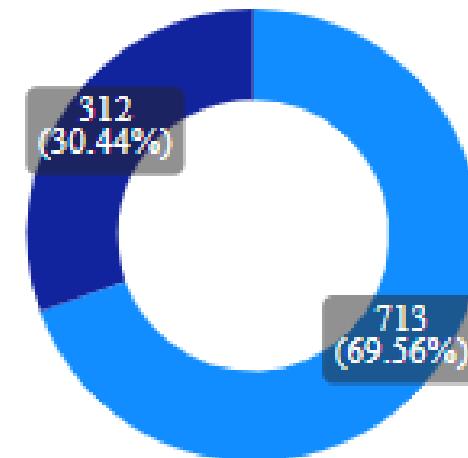
- slope: the slope of the peak exercise ST segment (Value 1: up sloping, Value 2: flat, Value 3: down sloping)
- thal: A blood disorder called thalassemia (3 = normal; 6 = fixed defect; 7 = reversable defect)
- num: Heart disease (0 = no, 1 = yes)
- fbs: The person's fasting blood sugar (> 120 mg/dl, 1 = true; 0 = false)
- restecg: Resting electrocardiograph's measurement (0 = normal, 1 = having ST-T wave abnormality, 2 = showing probable or definite left ventricular hypertrophy by Estes' criteria)
- thalach: The person's maximum heart rate achieved



HEART DISEASE DIAGNOSIS

Total Heart Disease by sex

● Male ● Female



Sex

Female

Male

Sum of exang

0.34

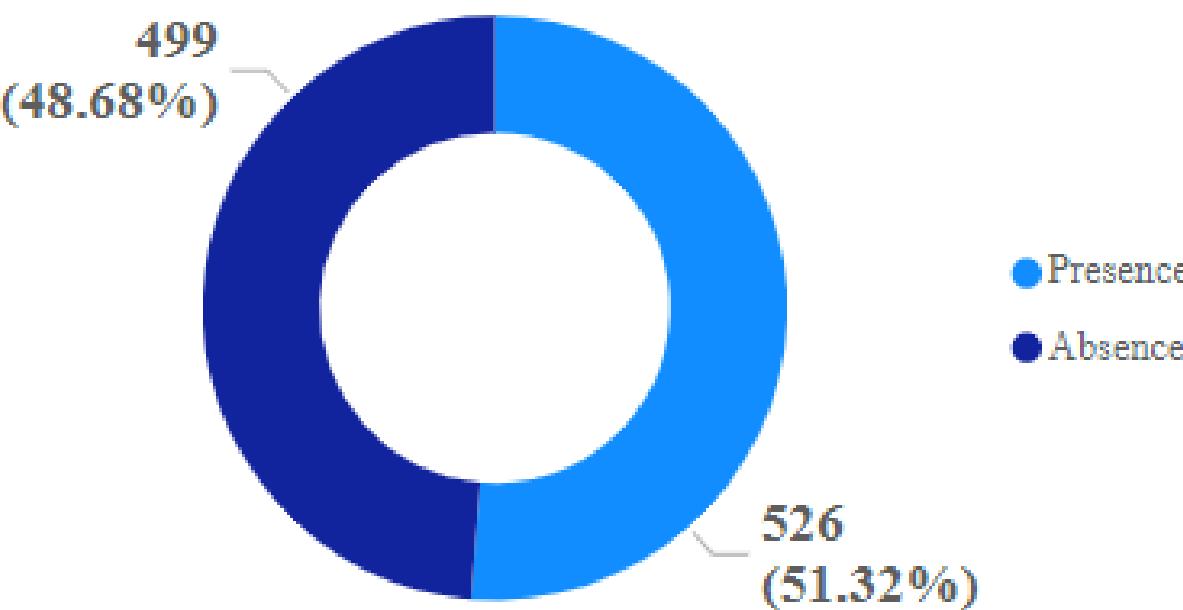
Sum of restecg

0.53

Average of chol

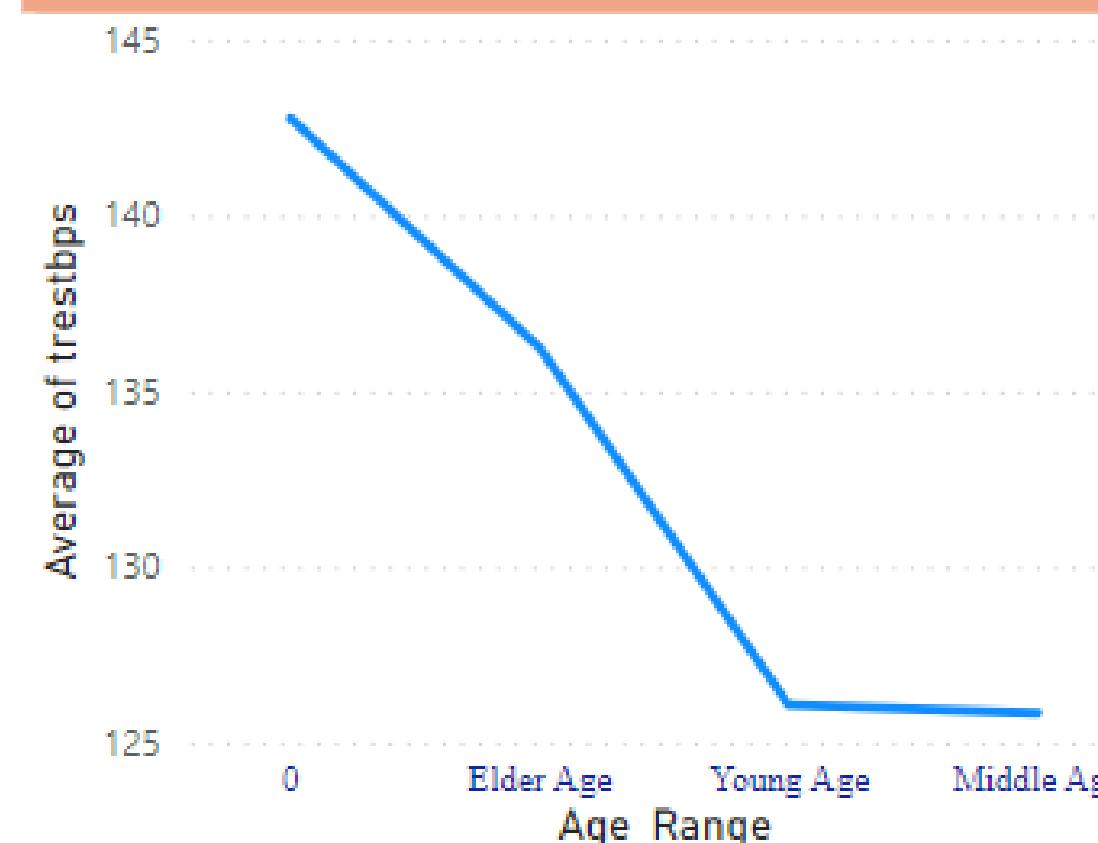
243.01

Count of sex1 by Heart_Disease

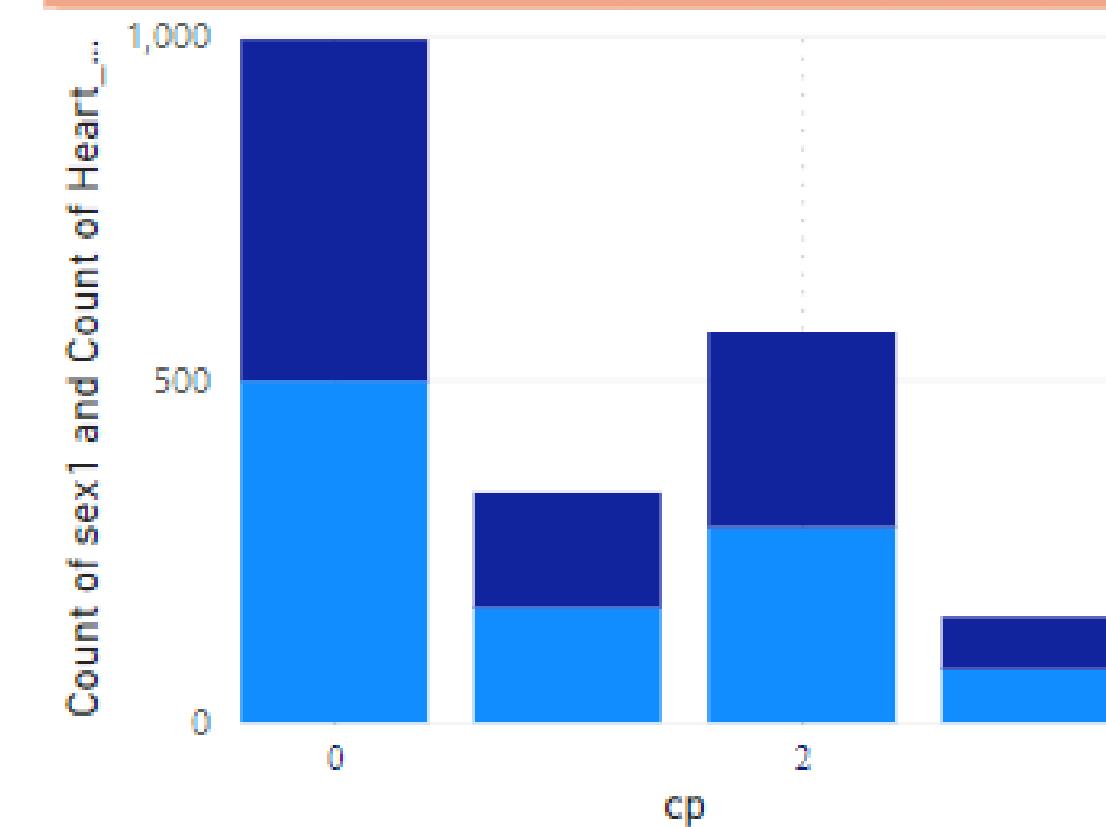


Presence
Absence

Average of trestbps by Age



Average of chest pain and restecg





Key Performance Indicator (KPI)

- Gender Distribution Based on Heart Disease.
- Range of Age Distribution According to their Gender.
- Chest Pain Experienced According to Range of Age Based on Heart Disease.
- Chest Pain Experienced in Different Age Group Based on their Gender.
- Average of Cholesterol Level and The person's maximum heart rate achieved Based on Heart Disease
- The Average of person's resting blood pressure.

THANK YOU

