**Heart Disease UCI**

This dataset contains various information about heart disease factors for patients, including different features like age,sex, chest pain type, resting blood pressure , cholesterol levels, and whether they have heart disease. It’s suitable for exploring health-related data analysis and predictive modeling.

Dataset Link : [Heart Disease UCI Dataset](https://drive.google.com/file/d/1w-WcDormwwGWGzR8tG7pFjdVEzdjx8V9/view?usp=sharing)

Problem Statements:

1. Data Exploration and Cleaning:

* First load the Heart disease dataset and check for missing values.
* Implement loops to count and display the number of entries for each feature.

1. Correlation Analysis:

* Analyze the correlation between different features(e.g. Cholesterol levels,resting blood pressure) and heart disease presence.
* Use functions to calculate and return correlation coefficients for relevant pairs of features, and present the results in a DataFrame.

1. Risk assessment based on age and cholesterol:

* Determine the risk of heart disease based on age and cholesterol levels.
* Create categories(e.g. Low, medium, high) using If-Else statements and loops

1. Visualization Analysis:

* Prepare the data using DataFrames and create visualization using libraries like Matplotlib or seaborn

This project using the Heart Disease dataset will help to understand important aspects of heart\_related data analysis. By exploring data cleaning, correlation analysis, risk assessment and visualization.

This experience will build a solid foundation for tracking more complex data set.,