**Heart Disease Prediction Project**

**Data Source**: KAGGLE  
**Data Link**: Heart Disease Dataset

**Libraries Required for the Project**

1. **NumPy**
   * **Description**: NumPy is a fundamental package for scientific computing with Python. It provides support for arrays, matrices, and many mathematical functions to operate on these data structures efficiently.
   * **Installation**: pip install numpy
2. **Pandas**
   * **Description**: Pandas is a powerful data manipulation and analysis library for Python. It offers data structures and functions needed to manipulate structured data seamlessly.
   * **Installation**: pip install pandas
3. **Matplotlib**
   * **Description**: Matplotlib is a plotting library for the Python programming language and its numerical mathematics extension NumPy. It provides an object-oriented API for embedding plots into applications.
   * **Installation**: pip install matplotlib
4. **Seaborn**
   * **Description**: Seaborn is a Python data visualization library based on Matplotlib. It provides a high-level interface for drawing attractive and informative statistical graphics.
   * **Installation**: pip install seaborn
5. **Scikit-learn**
   * **Description**: Scikit-learn is a free software machine learning library for the Python programming language. It features various classification, regression, and clustering algorithms, including support vector machines, random forests, gradient boosting, k-means, and DBSCAN, and is designed to interoperate with the Python numerical and scientific libraries NumPy and SciPy.
   * **Installation**: pip install scikit-learn
6. **Jupyter Notebook**
   * **Description**: Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text. Its uses include data cleaning and transformation, numerical simulation, statistical modeling, data visualization, machine learning, and much more.
   * **Installation**: pip install notebook