HEART DISEASE PREDICTION USING LOGISTIC REGRESSION

By Shagun Shaw

Team 1- PBEL-AI & ML (IBM)

PROBLEM STATEMENT

Develop a machine learning model using logistic regression to predict whether a person has heart disease based on clinical and lifestyle features. The goal is to support early diagnosis by identifying high-risk individuals using historical patient data

PROPOSED SOLUTION

We will develop a logistic regression model to predict heart disease using cleaned and preprocessed patient data. The model will be trained and evaluated using standard performance metrics. This approach aims to provide accurate risk predictions to support early diagnosis

WHY LOGISTIC REGRESSION

1. **Logistic regression is well-suited for binary classification problems, making it ideal for predicting the presence or absence of heart disease**

2. **It provides probability-based predictions, allowing for easy interpretation of a patient’s risk and supporting informed medical decisions**

TECH STACK USED

1. Programming Language: Python
2. Machine Learning Libraries: Scikit-Learn
3. Data handling: Numpy, Pandas
4. Data Visualisation: Seaborn, Matplotlib
5. Version Control: Git/GitHub

THANK YOU