**EXPLANATION**

The dataset was analyzed and Exploratory Data Analysis was done using python libraries such as numpy, pandas, matplotlib and seaborn.

Before applying machine learning models to the dataset EDA was performed to increase the accuracy of the models. These were:-

* Checking and removing null data points
* Label Encoding for few columns in the dataset
* Distribution plot using seaborn and matplotlib
* Finding Correlations between features
* Removing outliers from dataset

After the EDA was done , the dataset was divided train data and test data in a ratio of 80:20 and after that several machine learning models were trained and tested using different techniques, including Logistic Regression, K-Nearest Neighbors, Decision Tree, Random Forest, and Support Vector Machine. The models were evaluated using various evaluation metrics, including Accuracy, Precision, Recall, F1-score, and Specificity.