



Data Collection and Preprocessing Phase

Date	15 July 2024
Team ID	740044
Project Title	
	One Year Life Expectancy post on Thoracic Surgery using Machine Learning
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for pre-processing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.

Section	Description

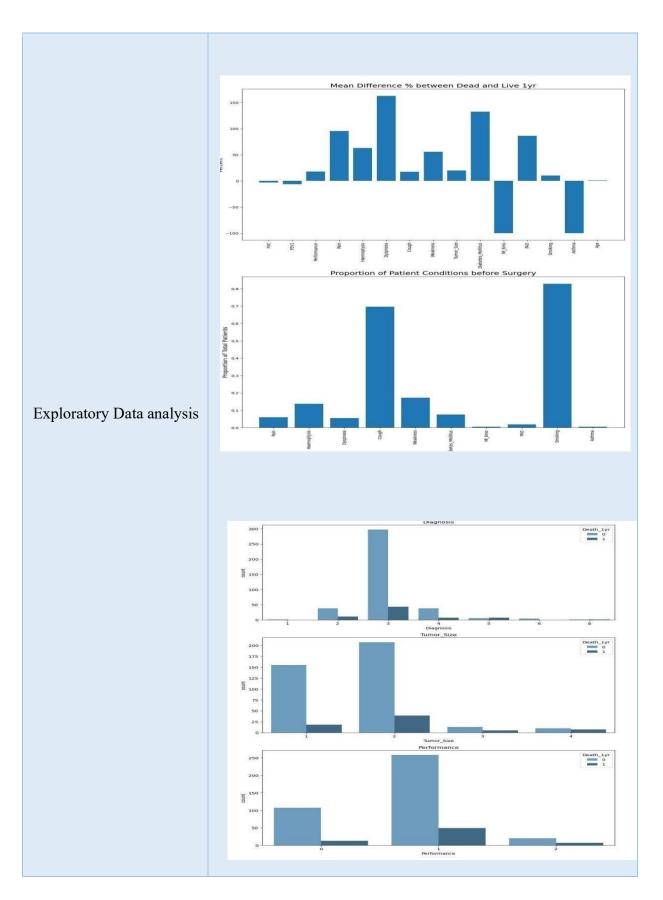




Data Overview Dimension: $454 \text{ rows} \times 17 \text{ columns}$ Descriptive statistics: Diagnosis FVC FEV1 Performance Pain Haemoptysis Dyspnoea Cough Weakness Tumor_Size Diabetes_Mellitus MI_6rr count 454.00000 454.00000 454.00000 454.00000 454.00000 454.00000 454.00000 454.00000 454.00000 454.00000 454.000000 454.00000 mean 3.092511 3.287952 2.51685 0.795154 0.059471 0.136564 0.055066 0.696035 0.171806 1.733480 0.074890 0.00440 0.715817 0.872347 0.77189 0.531459 0.236766 0.343765 0.228361 0.460475 0.377628 0.707499 0.263504 0.06629 0.000000 0.00000 0.00000 0.00000 3.00000 3.160000 2.36000 1.000000 0.000000 0.000000 1.000000 0.000000 2.000000 0.000000 0.00000 **75**% 3,00000 3,84000 2,97750 1,00000 0,00000 0,00000 1,00000 0,00000 2,000000 0.000000 0.00000 max 8.000000 6.300000 5.49000 2.000000 1.000000 1.000000 1.000000 1.000000 1.000000 4.000000 1.000000 1.00000























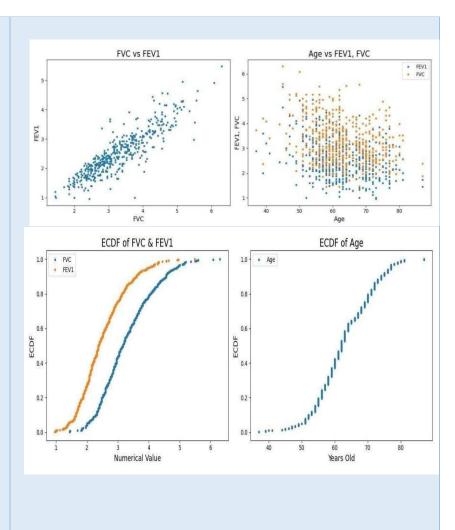






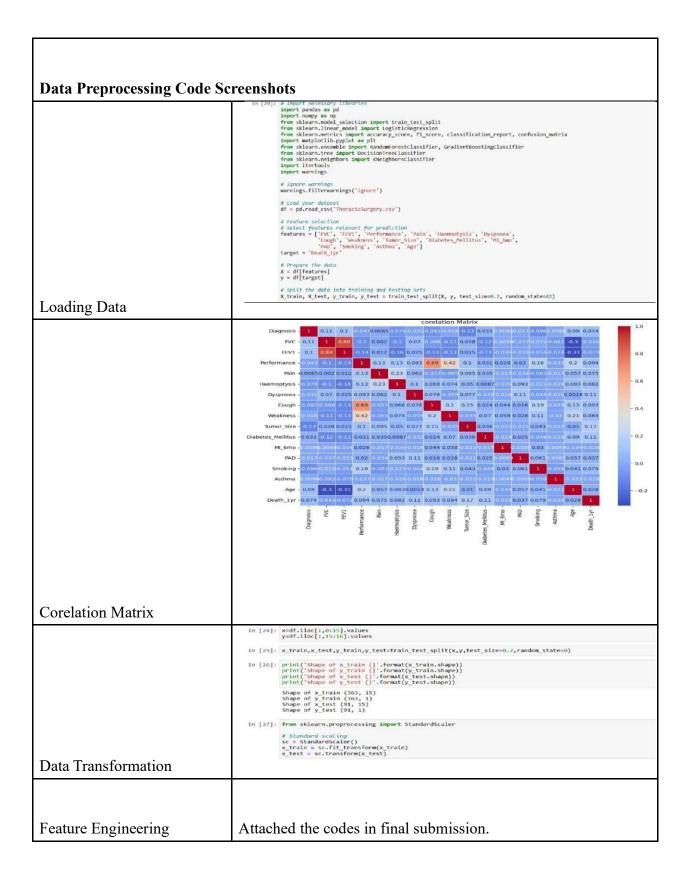
















Save Processed Data	Data saved in the form of model .pkl file