



Data Collection and Preprocessing Phase

Date	15 July 2024
Team ID	740116
Project Title	Sepsis Survival Minimal Clinical Records
Maximum Marks	6 Marks

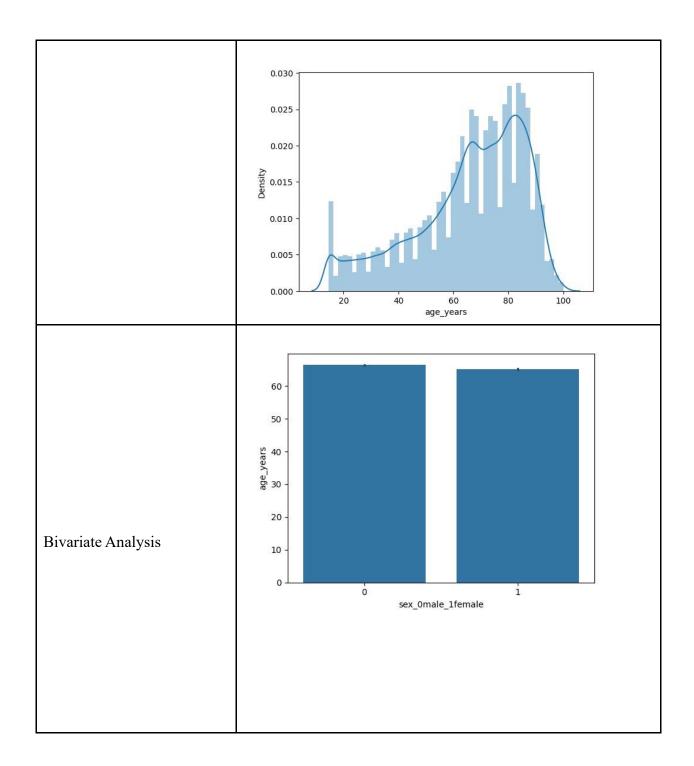
Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing 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	statistics	rows × 4 co	olumns Description of the price		_outcome_lalive_0dead 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Univariate Analysis	Analysis of individual variables to understand their distribution and identify any anomalies.					

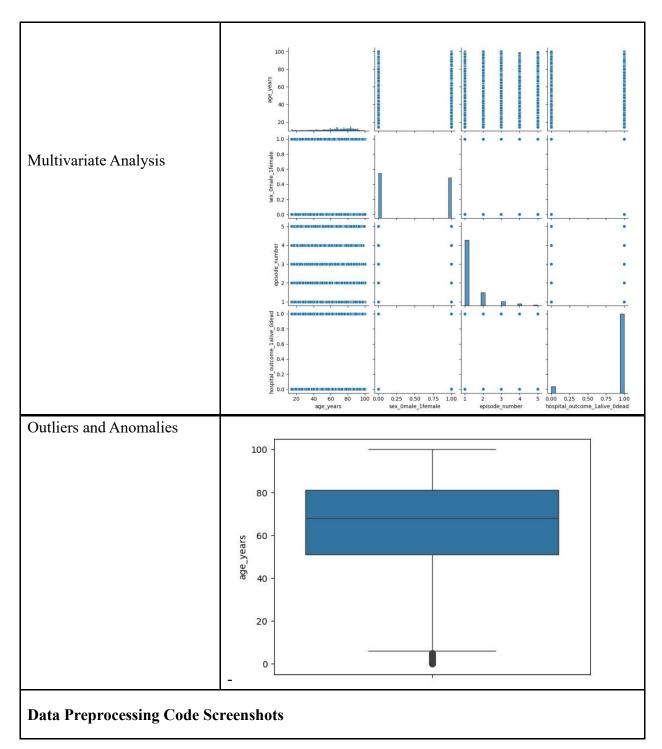
















	[4] data = pd.read_csv(r'/content/s41598-020-73558-3_sepsis_survival_primary_cohort.csv')					
	[5] data.head()					
	age_years sex_@male_1female episode_number hospital_outcome_1alive_@dead					
Landina Data	0 21 1 1 1 1					
Loading Data	1 20 1 1 1					
	3 77 0 1 1					
	4 72 0 1 1					
Data Transformation	<pre>data.drop(('case admission_id','ethnicity','hospital_admission_id','icu_admission_id'],axis=1,inplace=True) data['sex'].replace(('M':1,'F':0),inplace=True) data['hospital_discharge_status'].replace(('Alive':1,'Died':0),inplace=True) age_group = data.groupby('age_group') mean_age = age_group['age_years'].mean() data['age_years'] = data['age_group'].map(mean_age), inplace=True) data['age_years'] = data['age_years'].astype(int) data.drop(('age_group'),axis=1,inplace=True) data = data.dropn(a) X = data.dropn('hospital_discharge_status', axis=1) y = data['hospital_discharge_status'] X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42) scaler = StandardScaler() X_train_scaled = scaler.fit_transform(X_train) X_test_scaled = scaler.transform(X_test)</pre>					
Feature Engineering	Attached the codes in final submission.					
Save Processed Data	-					