Data Collection and Preprocessing Phase

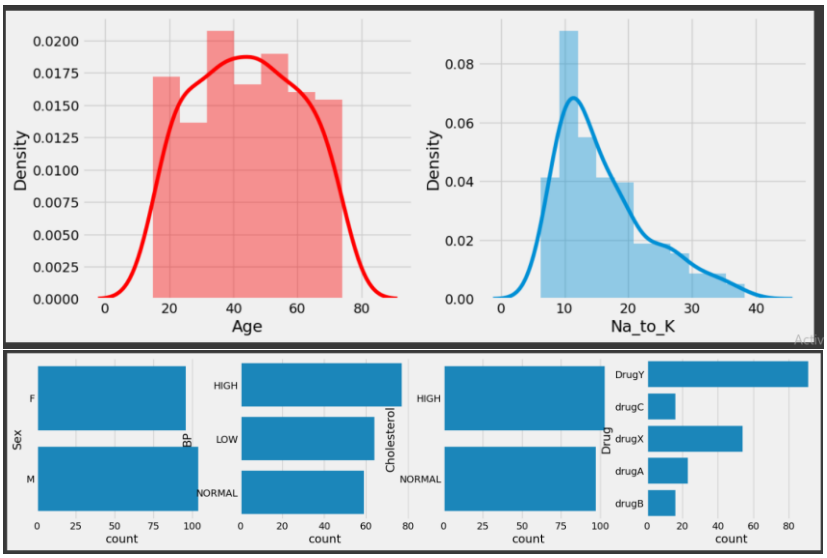
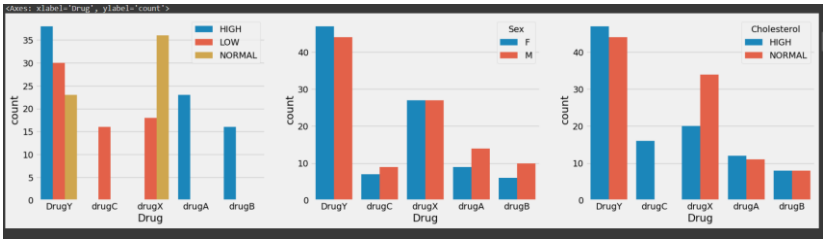
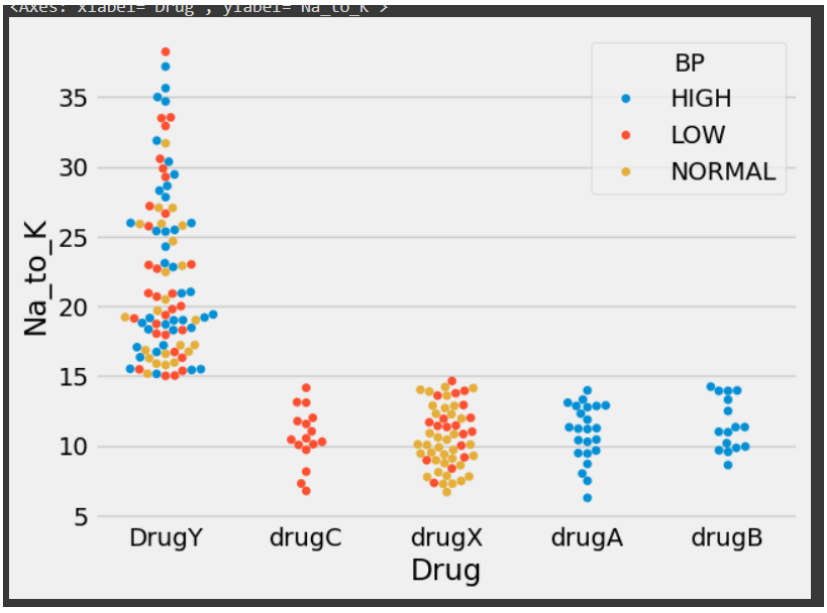
Date	July 2024
Team ID	739873
Project Title	Drug classification using machine learning
Maximum Marks	6 Marks

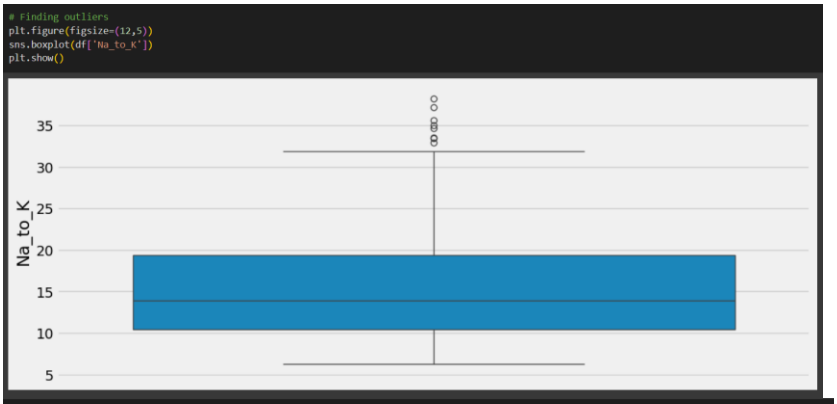
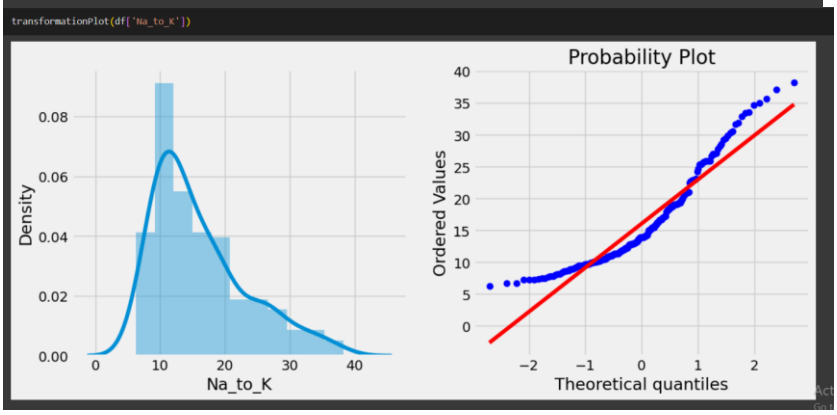
Data Exploration and Preprocessing Template

Identifies data sources, assesses quality issues like missing values and duplicates, and implements resolution plans to ensure accurate and reliable analysis.

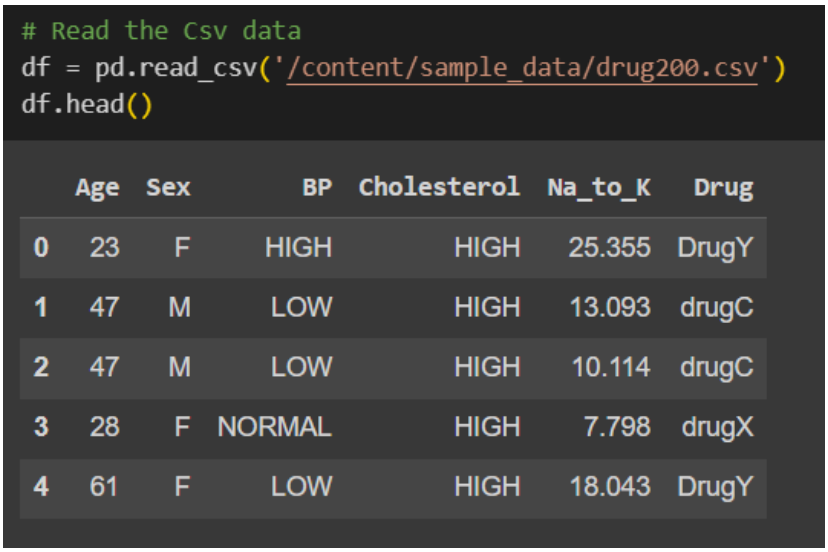
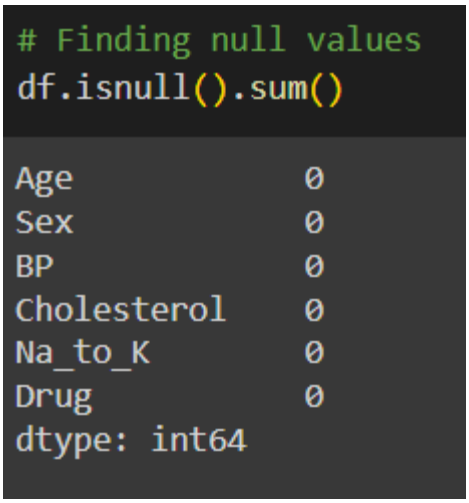
Section	Description
Data Overview	

	Age	Sex	BP	Cholesterol	Na_to_K	Drug
count	200.000000	200	200	200	200.000000	200
unique	NaN	2	3	2	NaN	5
top	NaN	M	HIGH	HIGH	NaN	DrugY
freq	NaN	104	77	103	NaN	91
mean	44.315000	NaN	NaN	NaN	16.084485	NaN
std	16.544315	NaN	NaN	NaN	7.223956	NaN
min	15.000000	NaN	NaN	NaN	6.269000	NaN
25%	31.000000	NaN	NaN	NaN	10.445500	NaN
50%	45.000000	NaN	NaN	NaN	13.936500	NaN
75%	58.000000	NaN	NaN	NaN	19.380000	NaN
max	74.000000	NaN	NaN	NaN	38.247000	NaN

Univariate Analysis	
Bivariate Analysis	
Multivariate Analysis	

Outliers and Anomalies	 

Data Preprocessing Code Screenshots

Loading Data	
Handling Missing Data	
Splitting data into train and test