



Data Collection and Preprocessing Phase

Date	10 July 2024
Team ID	739713
Project Title	Beansense: Precision Bean Classification For Enhanced Agricultural And Culinary Applications
Maximum Marks	6 Marks

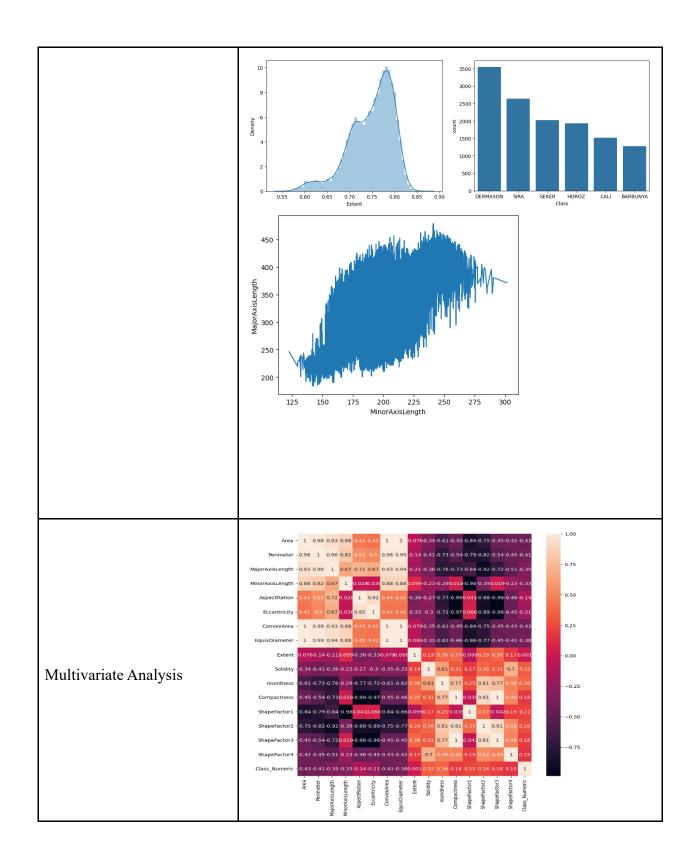
Data Exploration and Preprocessing Report

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	Dimension: 13611 rows × 18 columns Descriptive statistics: New Prointer Algorithmension (Contrictly Consolved Equivalenter Control Solidity Poundess Compactness Superactor's Superactor'
Univariate Analysis	











Bivariate Analysis				
Outliers and Anomalies	-			
Data Preprocessing Code Screenshots				
Loading Data	### Consert Class Conference of the Conference o			





Managing Missing Data	df.isna().sum() Area 0 Perimeter 0 MajorAxisLength 0 MinorAxisLength 0 AspectRation 0 Eccentricity 0 ConvexArea 0 EquivDiameter 0 Extent 0 Solidity 0 roundness 0 Compactness 0 ShapeFactor1 0 ShapeFactor2 0 ShapeFactor3 0 ShapeFactor4 0 Class 0 Class_Numeric 0 dtype: int64
Data Transformation	## (P.45) CTRNS (PACLANS************************************
Feature Engineering	Attached the codes in final submission.
Save Processed Data	-