



## **Data Collection and Preprocessing Phase**

Date	15 July 2024
Team ID	739956
Project Title	Revolutionizing Automotive Resale: AI- Driven Prediction of Used Toyota Corolla Car Prices
Maximum Marks	6 Marks

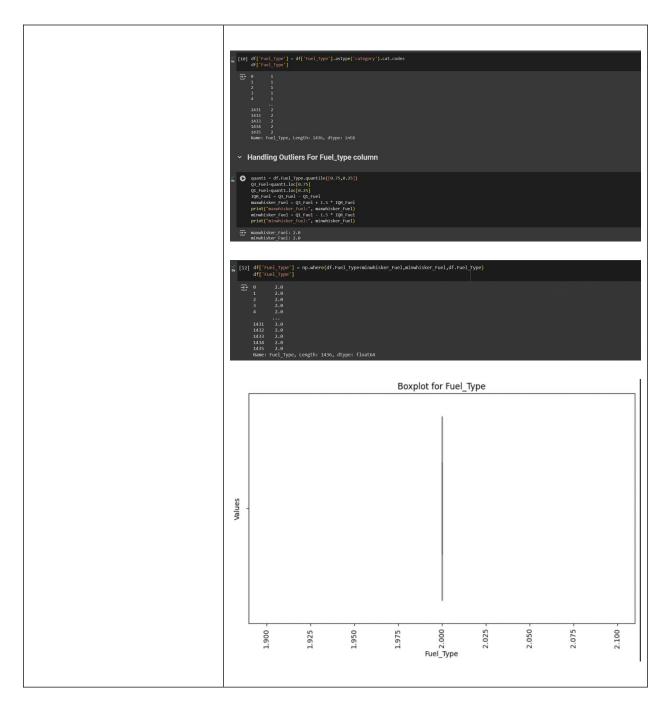
## **Data Exploration and Preprocessing Template**

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	Dimension:  1436 rows ,39 columns  [6] df.shape  → (1436, 39)  √ (1436, 39)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49)  ✓ (146, 49
Univariate Analysis	-
Bivariate Analysis	-
Multivariate Analysis	-
Outliers and Anomalies	outliers of pd. DataFrame (columns-['Column', 'Number of Outliers'])  for columns of the pd. DataFrame (columns-['Column', 'Number of Outliers'])  for columns of the pd. DataFrame (column', 'Number of Outliers')  coutliers of pd. Socres of the pd. Column of (column), mean()) / df[column].std())  outliers_count- outliers.sum()  outliers_count- outliers.sum()  outliers_off = pd.concat([outliers_df, pd.DataFrame(['Column'; [column], 'Number of Outliers'; [outliers_count]})), ignore_index-True)  print(outliers_df)







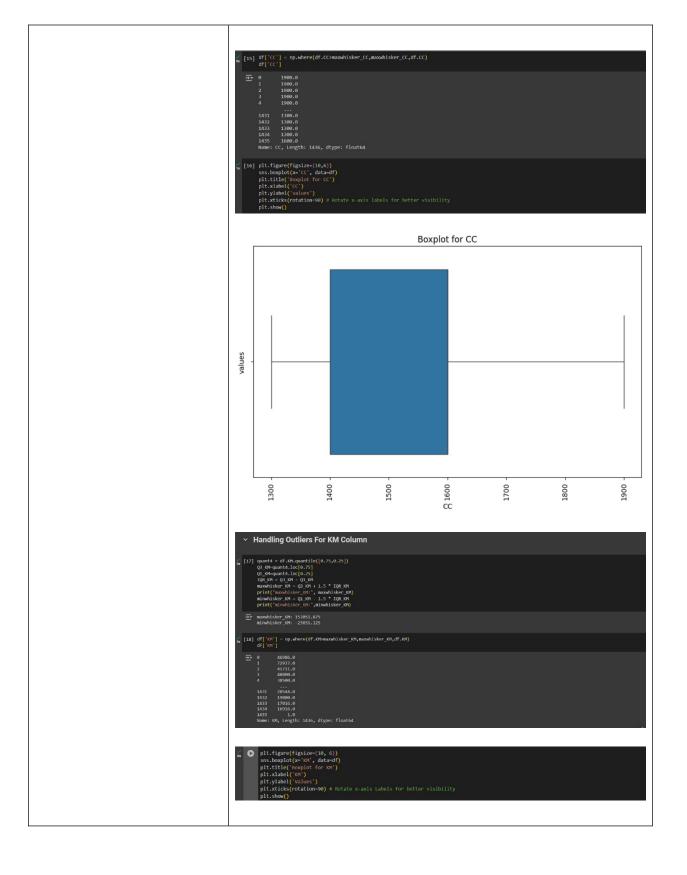






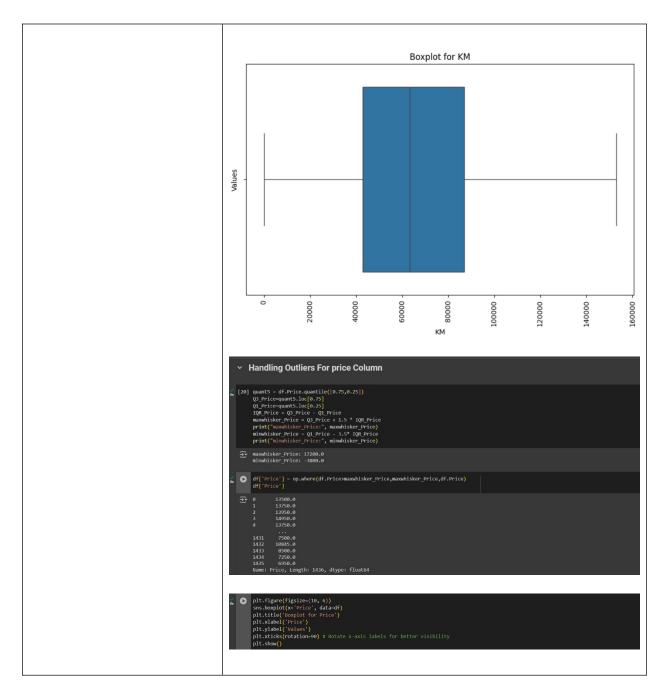






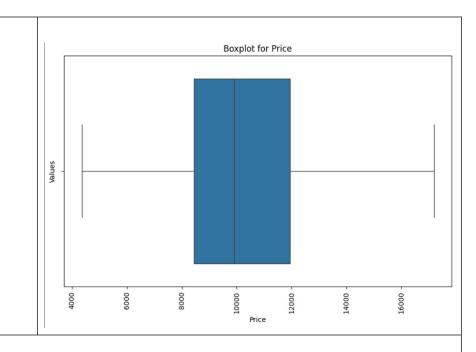






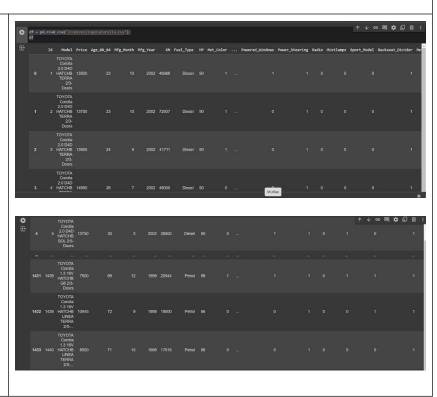






## **Data Preprocessing Code Screenshots**

## Loading Data







	Controls  13 160/  13 160/  1432 1439 HSTITE-961615 72 9 1998 19000 Petrol 86 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
Handling Missing Data	-
Data Transformation	-
Feature Engineering	### Assuming your DataFrame is named 'df' and you want to predict 'Model' as an example correlations of correlations. Accord ('Model') abs().sort_values(ascending=False)  feature_importance_df = pd.DataFrame(('Feature': correlations.index, 'Importance': correlations.values))  pl.figure(figsize=(id, 8)) sns.barplot(xe':apportance' y y "feature', data-feature_importance_df) pl.title('Correlation with Target Variable')    Correlation with Target Variable
Save Processed Data	-