

**Data Collection and Preprocessing Phase**

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| Date | 15 july 2024 |
| Team ID | 740033 |
| Project Title | Car Performance Prediction |
| Maximum Marks | 6 Marks |

**Data Exploration and Preprocessing Report**

Analyzed dataset for car performance prediction, handling missing values, outliers, and ensuring data normalization. Performed feature selection and engineering to enhance model accuracy. Final dataset prepared for model training.

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| **Section** | **Description** | |
|  | Basic statistics, dimensions, and structure of the data. s | |
| Univariate Analysis | Exploration of individual variables (mean, median, mode, etc.). | |
|  | Relationships between two variables (correlation, scatter plots). | |
| Multivariate Analysis | Patterns and relationships involving multiple variables.  Data Overview | |
| Outliers and Anomalies | Identification and treatment of outliers. | |
| **Data Preprocessing Code Screenshots** | | | |
| Loading Data | |  | |







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| Handling Missing Data | Code for identifying and handling missing values. |
| Data Transformation | Code for transforming variables (scaling, normalization). |
| Feature Engineering | Code for creating new features or modifying existing ones. |