 

Data Collection and Preprocessing Phase

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| Date | 15 October 2024 |
| Team ID | 739855 |
| Project Title | Predicting Diamond Prices With ANN Using Deep Learning. |
| Maximum Marks | 6 Marks |

**Preprocessing Template**

To preprocess data for predicting diamond prices, start by loading and exploring the dataset to identify missing values and outliers. Handle missing data by dropping or imputing them. Convert categorical variables like cut, colour, and clarity into numeric values using label encoding or one-hot encoding. Scale numeric features like carat, depth, and table using standardization to ensure uniformity. Address outliers with techniques like IQR filtering.

Finally, split the data into training and testing sets for model development and evaluation.

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| **Section** | **Description** |
| Data  Overview |  |
| Boxplot |  |

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| Outliers |  |

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| Mat Plot |  |

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| **Data Preprocessing Code Screenshots** | |
| Loading Data |  |

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| Checking Missing Values |  |

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| Data  Preprocessing |  |

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| Data Splitting |  |
| Save  Processed Data |  |