 

**Data Collection and Preprocessing Phase**

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| Date | 15 October 2024 |
| Team ID | 740663 |
| Project Title | Predicting Diamond Prices With ANN Using Deep Learning |
| Maximum Marks | 2 Marks |

**Data Collection Plan & Raw Data Sources Identification Template**

Creating a data collection plan involves several key steps to ensure that the data gathered is reliable , relevant, and suitable for analysis.

**Data Collection Plan Template**

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| **Section** | **Description** |
| Project Overview | This project aims to predict diamond prices using machine learning models based on attributes such as carat, cut, color, clarity, and  geometric properties like depth, table, and dimensions. By  analyzing historical data, the project seeks to uncover key factors influencing pricing and develop a tool that delivers accurate price estimates. This can benefit jewelers, buyers, and industry  stakeholders by providing data-driven insights for valuation and decision-making. |
| Data Collection Plan | The data collection will focus on gathering datasets with key  diamond attributes, including carat, cut, colour, clarity, depth, table, and price. Primary sources include publicly available datasets on |

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|  | platforms like Kaggle .The collected data will be Preprocessed to ensure quality and relevance for building predictive models. |
| Raw Data Sources  Identified | **Raw Data Sources Identification:**  1. **Kaggle Datasets** - Pre-compiled datasets specific to diamond pricing. |

**Raw Data Sources Template**

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| **Source Name** | | **Description** | | **Location/URL** | **Format** | **Size** | **Access Permissions** | | |  |
| Kaggle Dataset | This  dataset consist of information regarding  predicting diamond  prices. | | https://[www.kaggle.com/code/karnikakapoor/diamond-](http://www.kaggle.com/code/karnikakapoor/diamond-) price-prediction/input | | | | CSV | 3  GB | Public | |