



Data Collection and Preprocessing Phase

Date	15 October 2024
Team ID	739739
Project Title	Predicting Diamond Prices With ANN Using Deep Learning
Maximum Marks	2 Marks

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source			
	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	Missing values in columns such as cut, colour, or clarity.	Moderate	Impute missing values using statistical methods (e.g., mode for categorical variables, median for numerical).
Kaggle Dataset	Outliers in numerical columns like carat, price, and depth.	High	Use statistical techniques like IQR to identify and remove/handle outliers.
Kaggle Dataset	Incorrect or inconsistent data types for columns (e.g., carat or price stored as strings).	Moderate	Convert columns to appropriate data types (e.g., float for carat, integer for price).

Kaggle Dataset	Redundant columns or features with high multicollinearity (e.g., x, y, z vs. volume).	Moderate	Perform feature selection; calculate correlations to drop redundant features.
Kaggle Dataset	Sparse data in columns like depth or table which may not provide significant predictive power.	Low	Conduct feature importance analysis and drop columns contributing minimally to the prediction model.