



Data Collection and Preprocessing Phase

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

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

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

Raw Data Sources Template

Source Name		Des	scription	Location/URL	Format	Size	Access Permissions		
Kaggle Dataset	info rega pred	aset sist of ormation arding dicting nond	https://www.k	kaggle.com/code/ka on/input	rnikakapoor	/diamond-	CSV	3 GB	Public