Project Initialization and Planning Phase

Date	15 October 2024
Team ID	739982
Project Name	Predicting Diamond Prices With ANN Using DeepLearning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Problem (Customer)	me feel
Statement (PS)	





accurately determining the price of a diamond is critical for buyers, sellers, appraisers. Diamond prices are influenced by multiple factors, including the 4Cs: **Carat**, **Cut**, **Colour**, and **Clarity**, as well as other attributes like **dimensions** and **fluorescence**. Pricing inconsistencies can lead to mistrust in the market, revenue loss, and customer dissatisfaction.

The goal is to develop a machine learning model to accurately predict diamond prices based on features like **carat**, **cut**, **colour**, **clarity**, and **dimensions**. This will help buyers and sellers ensure fair pricing, improve market transparency, and automate valuation processes.

Example:

l am		I'm trying	g to	But		Because		Which makes me feel
Individuals or businesses (e.g., jewelers, investors or buyers) involved in purchasing diamonds.		market price of a diamond based information on its characteristics (e.g., carat, cut, clarity, color)		Diar is co mul influ fact of to	mond pricing omplex, with liple uencing ors and a lack ransparency he valuation cess.	Prices depend on a combination of subjective assessments (e.g., cut quality) and objective factors (e.g., carat weight), making it challenging to get consistent and accurate pricing.		Which makes me feel Confused and uncertain about whether I'm paying a fair price or getting a good deal.
	purch diamo	_			valuation process.	accurate pricing.		

Retailers or e-commerce platforms selling diamonds to end customers.	Offer competitive and transparent pricing for diamonds to attract and retain customers.	The pricing process is highly variable and depends on many factors that are hard to standardize.	There's no universally accepted tool or model to accurately predict diamond prices based on all relevant attributes.	Frustrated and at risk of losing customers due to inconsistent or uncompetitive pricing.
--	---	--	--	--