Problem Formulation

* Problem Statement: Given a dataset of houses and their corresponding features, the goal is to predict the price of a new house based on its features.
* Input: A set of features describing a house, including the number of bedrooms, square footage, location, age, and other relevant factors.
* Output: A predicted price for the house, represented as a continuous variable.
* Constraints: The dataset may contain missing or erroneous data, and there may be outliers or other data quality issues that need to be addressed.
* Assumptions: The dataset is representative of the population of houses being considered, and the relationship between the input features and the output variable is approximately linear.
* Objective : Our objective to build a machine learning model that can accurately predict the price of the house with a high degree of accuracy