**MLCC Project – House Value Estimation**

**Project Outline**

The project aims to develop a machine learning model for real estate price estimation using a dataset of houses in Bangalore, India. The dataset includes various features of houses such as the size of the house, the number of bedrooms and bathrooms, location, and other amenities. The objective is to build a regression model that can accurately predict the price of a house based on its features. This project involves various machine learning techniques such as data preprocessing, feature engineering, model selection, and evaluation. The project begins with data cleaning and preprocessing to remove any missing values, outliers, or inconsistencies in the dataset. The next step is to perform feature engineering to extract useful information from the available features and create new features that can improve the model's performance. The regression model selected for this project is linear regression. The dataset of houses in Bangalore will be preprocessed and feature engineered to prepare it for training. The project's outcome is to develop a model that can accurately predict the price of a house in Bangalore based on its features, which can be used by real estate agents, buyers, and sellers to make informed decisions

**Purpose**

The project aims to develop a machine learning model for real estate price estimation using a dataset of houses in Bangalore, India. The objective is to build a regression model that can accurately predict the price of a house based on its features such as the size of the house, the number of bedrooms and bathrooms, location, and other amenities. Real estate price estimation is a crucial task in the real estate industry, as it helps buyers, sellers, and real estate agents make informed decisions. Traditional methods of real estate price estimation involve expert knowledge and subjective judgments, which can be time-consuming and prone to errors. Machine learning-based models, on the other hand, can automate the price estimation process and provide accurate predictions based on data. In this project, we will be using a dataset of houses in Bangalore, which includes various features of houses, such as their location, size, and amenities. We will be using linear regression as our regression model and will be optimizing its performance through various techniques such as data preprocessing, feature engineering, and model selection. The project's outcome will be a machine learning model that can accurately predict the price of a house in Bangalore based on its features. This model can be used by real estate agents, buyers, and sellers to make informed decisions about buying or selling a property in Bangalore.