**REAL ESTATE**

**PRICE PREDICTION**

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**Abstract:**

In our project, we aim to develop a machine learning model for predicting real estate prices accurately. We know that many things affect locations, property prices, size and market trends. So, we are using a big dataset with lots of information about properties. We are trying out different techniques to which one works best for predicting prices, like Linear regression, Random Forest Regression, Ridge Regression, Gradient Boosting and Lasso Regression.

We are using Bangalore House Price Prediction Dataset, which consist of 13321 samples. The Dataset is pre-processed to handle categorical variables and ensure uniform feature scales using the techniques such as “One-Hot Encoding”, “MinMax Scaling”.

Our project involves extensive experimentation and evaluation of regression algorithm’s performance using metric such as Root Mean Squared Error (RMSE), Mean Squared Error (MSE), and R-square(R2) score. Through rigorous analysis of experimental results, we aim to identify the most effective regression models and Normalization techniques for predicting real estate prices accurately.

By providing valuable insights into the dynamics of the real estate market and the factors influencing property prices, our project aims to assist stakeholders in making informed decisions. Once we’ve finished, we’ll have a better understanding of how different factors affect property prices. Additionally, we discuss potential avenues for feature research and model refinement to enhance the predictive accuracy and applicability of real estate price prediction models.