# Predicting Home Prices in Bangalore

**A Synopsis Submitted**

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**Synopsis**

1. **Introduction**

In this project, we will develop and evaluate the performance and the predictive power of a model trained and tested on data collected from houses in Bangalore suburbs.

Once we get a good fit, we will use this model to predict the monetary value of a house located at the Bangalore area.

1. **Motivation**

The house price is most important part in real estate business. Depending upon the area, place, number of rooms in the house we will try to predict effective price.

1. **Methodology**

* **Problem Statement:**

Prices of real estate properties are sophisticatedly linked with our economy. Despite this, we do not have accurate measures of housing prices based on the vast amount of data available. Therefore, the goal of this project is to use machine learning to predict the selling prices of houses based on many economic factors.

The structured model has been designed to learn from the most recently captured data points which allows the model to adapt to the latest market trends. To demonstrate the effectiveness of the proposed approach, we can use a case study of assessing real properties in Bangalore.

* **Data Collection:**

The dataset contains 9 columns of 13320 records, which describes different features of the dataset.

* **Background:**

One heuristic dataset commonly used for regression analysis of housing prices is the Bangalore suburban housing dataset. Former analyses have found that the prices of houses in that dataset are most strongly dependent on their size and the geographical location.

* **Data pre-processing:**

Data pre-processing is an important task to be done prior to analysis to get the data ready for analysis. As good data can only provide better results, data pre-processing becomes necessary prior to analysis. In data pre-processing, the proposed system performs data cleaning, data imputation, data normalization, and transformation. Data cleaning process removes null values and redundant attributes from the dataset.

**4. Conclusion**

The main purpose of this project is to classify and predict the possible house prices by using machine learning algorithms.

**References**

1. http://scikit-learn.org (Information on python packages / code help)
2. en.wikipedia.org (Theoretical Information)
3. images.google.com (Explanatory images)