Project Proposal: Predicting Real Estate Prices Using Machine Learning

IMHAMED BOUJEMAA

March 12, 2023

1 Introduction

The aim of this project is to train a machine learning model to predict real estate prices based on various features such as number of bedrooms, square footage, location, etc. This project involves exploring and cleaning a dataset of real estate listings, selecting the most relevant features for the model, and training and evaluating the model to achieve the best possible accuracy.

2 Methodology

The first step in this project is to collect and preprocess the dataset. This involves cleaning the data, dealing with missing values, and transforming categorical data into numerical data. Once the dataset is ready, we will explore it to gain insights into the data and select the most relevant features for our model.

Next, we will split the data into training and testing sets, and use various machine learning algorithms to train and evaluate the model. We will experiment with different algorithms such as linear regression, decision trees, and random forests, and select the best algorithm based on its accuracy and other evaluation metrics.

Finally, we will use the trained model to make predictions on new real estate listings and evaluate its performance on these predictions.

3 Expected Results

We expect to achieve a high level of accuracy in predicting real estate prices using our machine learning model. By selecting the most relevant features and using the best algorithm, we hope to achieve an accuracy of at least 80

4 Conclusion

In conclusion, this project involves training a machine learning model to predict real estate prices based on various features. By preprocessing the data, selecting the best features, and using the best algorithm, we hope to achieve a high level of accuracy in our predictions. We look forward to presenting our findings and results to our teacher.

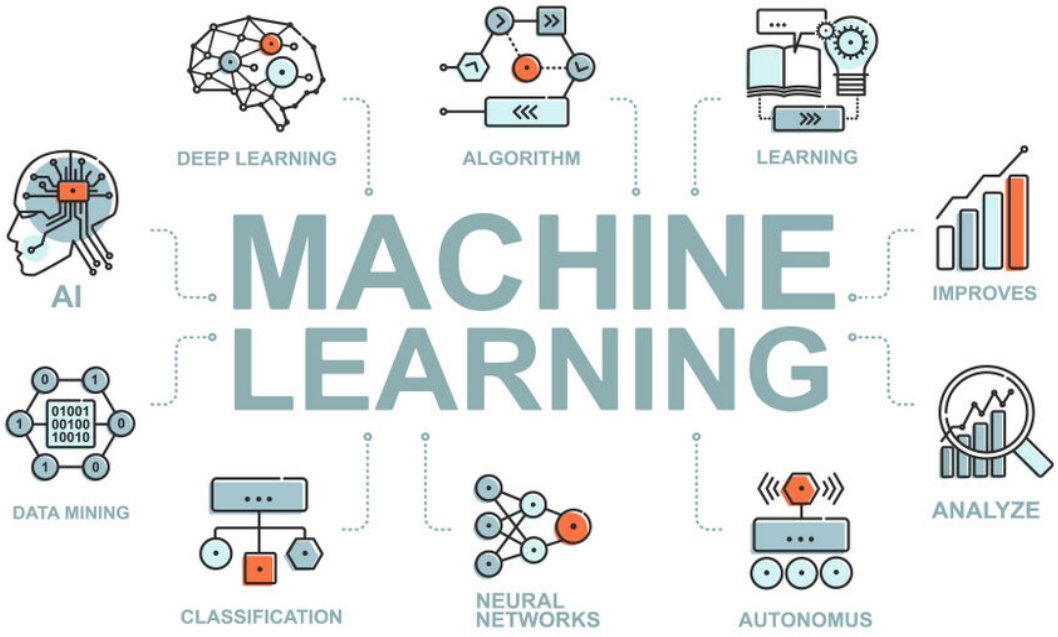

Figure 1: Machine Learning Graphic