Predicting Houses price using linear regression

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Abstract:

Through the project by building a machine learning linear regression model. The goal of this project is to apply a linear regression model that predicts the prices of the houses based on many features. The data from https://www.kaggle.com/datasets website. We will do a comprehensive analysis with all data cleaning, exploration, visualization, feature selection, model building, and evaluation.
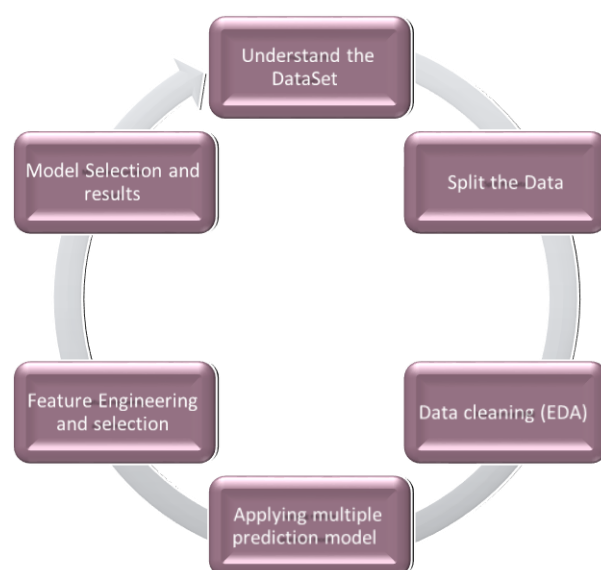
Design:

By applying the dataset on many machines learning models such as linear regression, Cross validation and polynomial regression to predict the houses prices.

Data:

The dataset used in this project was from https://www.kaggle.com/datasets website. The dataset contains 33.7k rows and 19 columns.

Algorithms:

Tools:

Libraries:

- Pandas and NumPy packages to manipulate data.
- Matplotlib & seaborn library for visualizing data.
- Linear Regression , PolynomialFeatures , RidgeCV and for modeling.

Technologies:

- Python, Jupyter Notebook.

Communication: