

Predicting Houses price

using linear regression

First!

Intro

**Data
Visualization**

Modling



Prezi

Muzoon Alshahrani

Bushra Alzahrani

In this project we worked on
building our module using
linear Regression

So! Let Us take you with our journey through
this project



GOAL

The goal of this project is that we are going to build a linear regression model that predicts the prices of the houses based on the features

Dataset

Methodology

Cont..

Dataset

rows 33.7k

from

<https://www.kaggle.com/datasets>

columns 19

Import libraries

Understand the DataSet

Split the Data

Data cleaning (EDA)

Applying multiple prediction model

Feature Engineering and selection

Model Selection and results

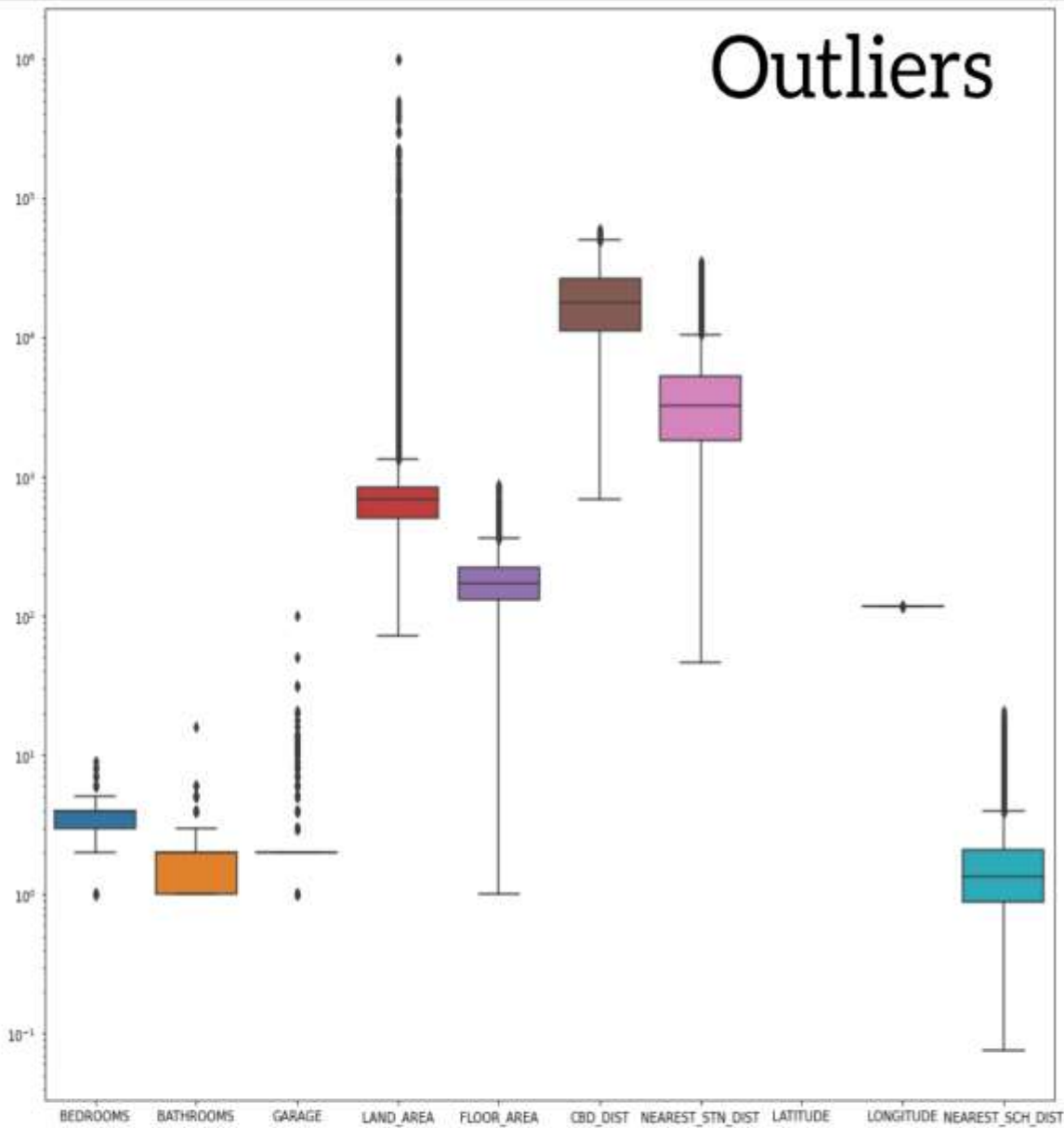


Data cleaning



- Drop duplicate
- Remove and handling Null Values
- Drop unnecessary columns that doesn't give me any benefits
- Convert values type

Outliers



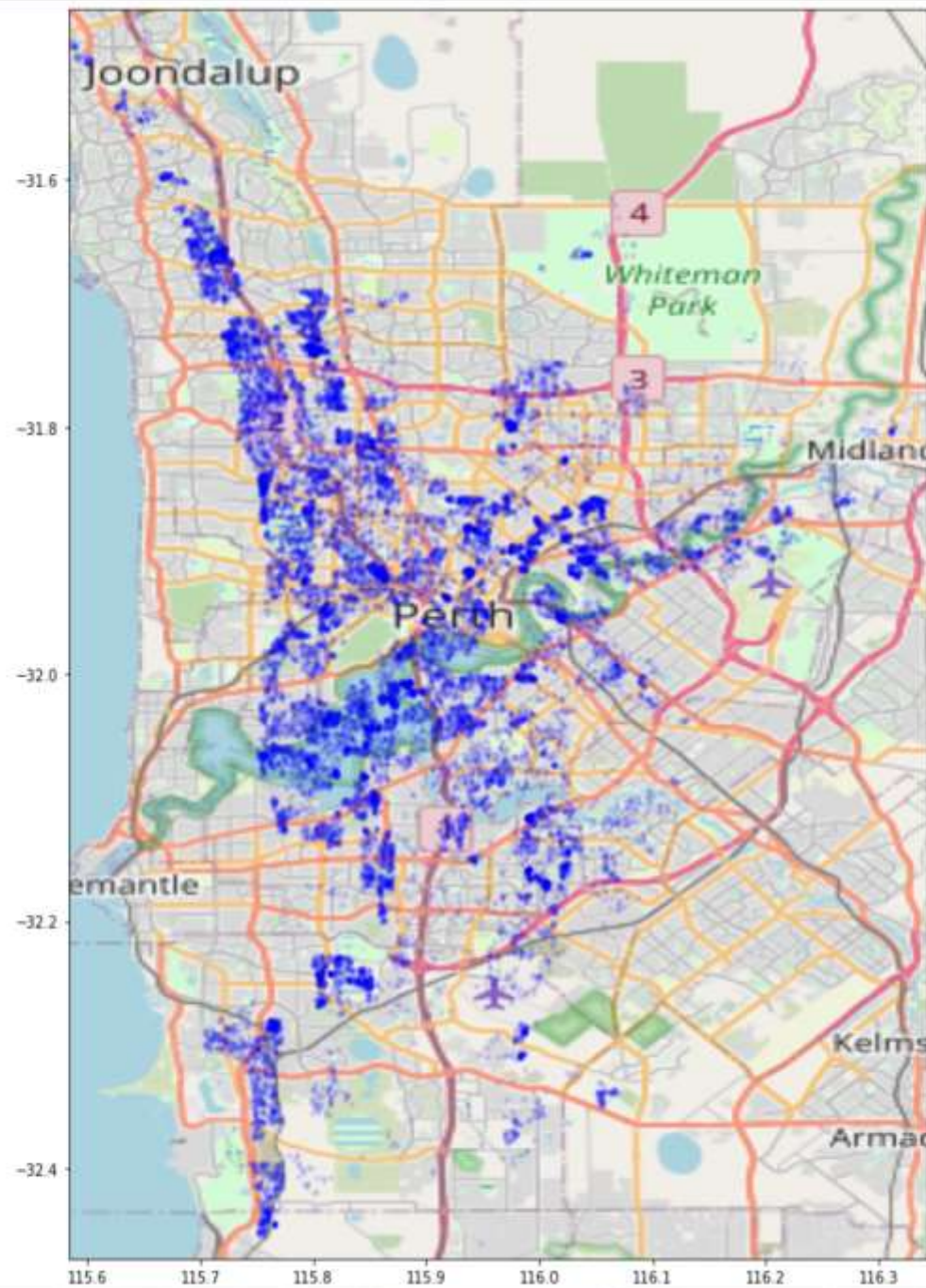
Mapping
longitude
&
latitude

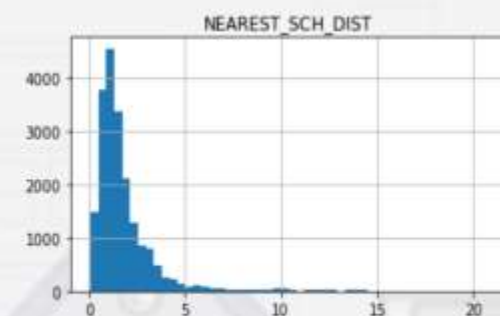
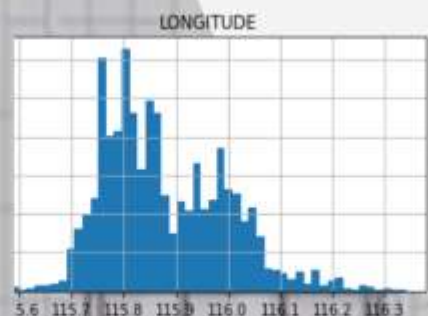
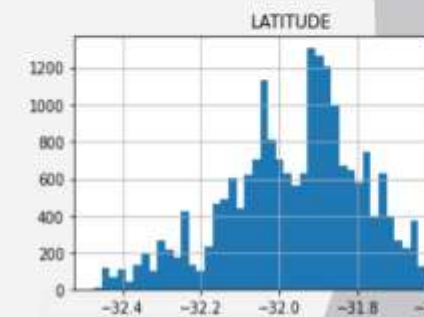
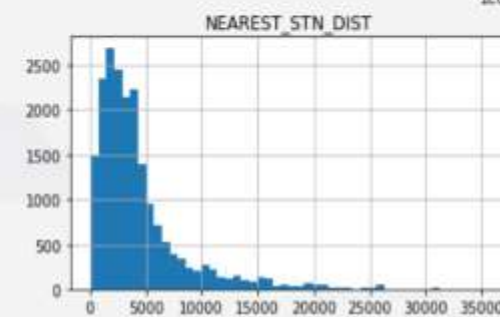
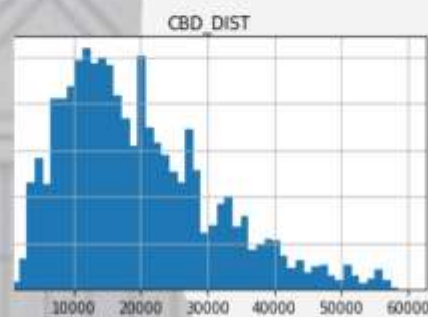
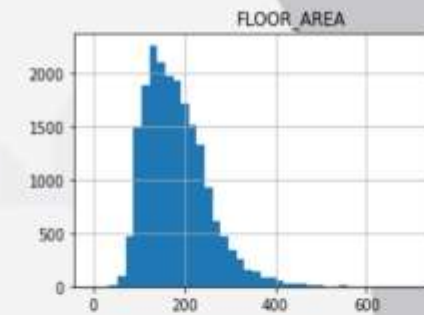
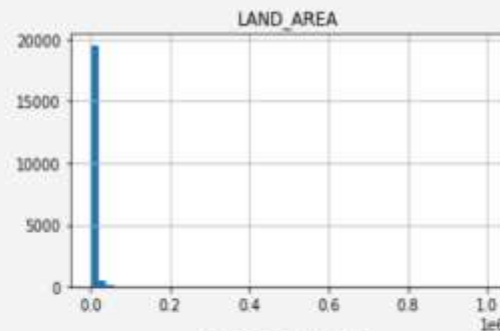
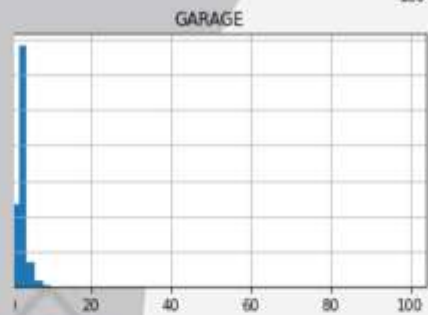
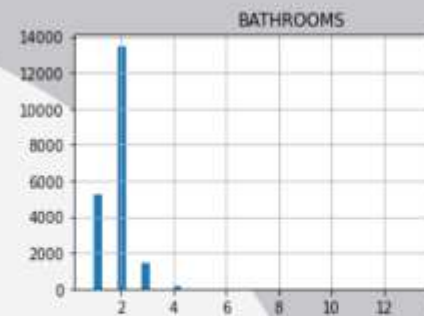
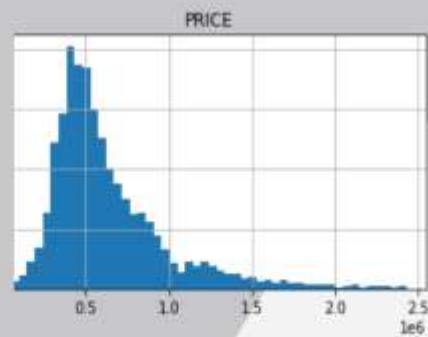
Correlation

Data Hist

Correlation
cont..

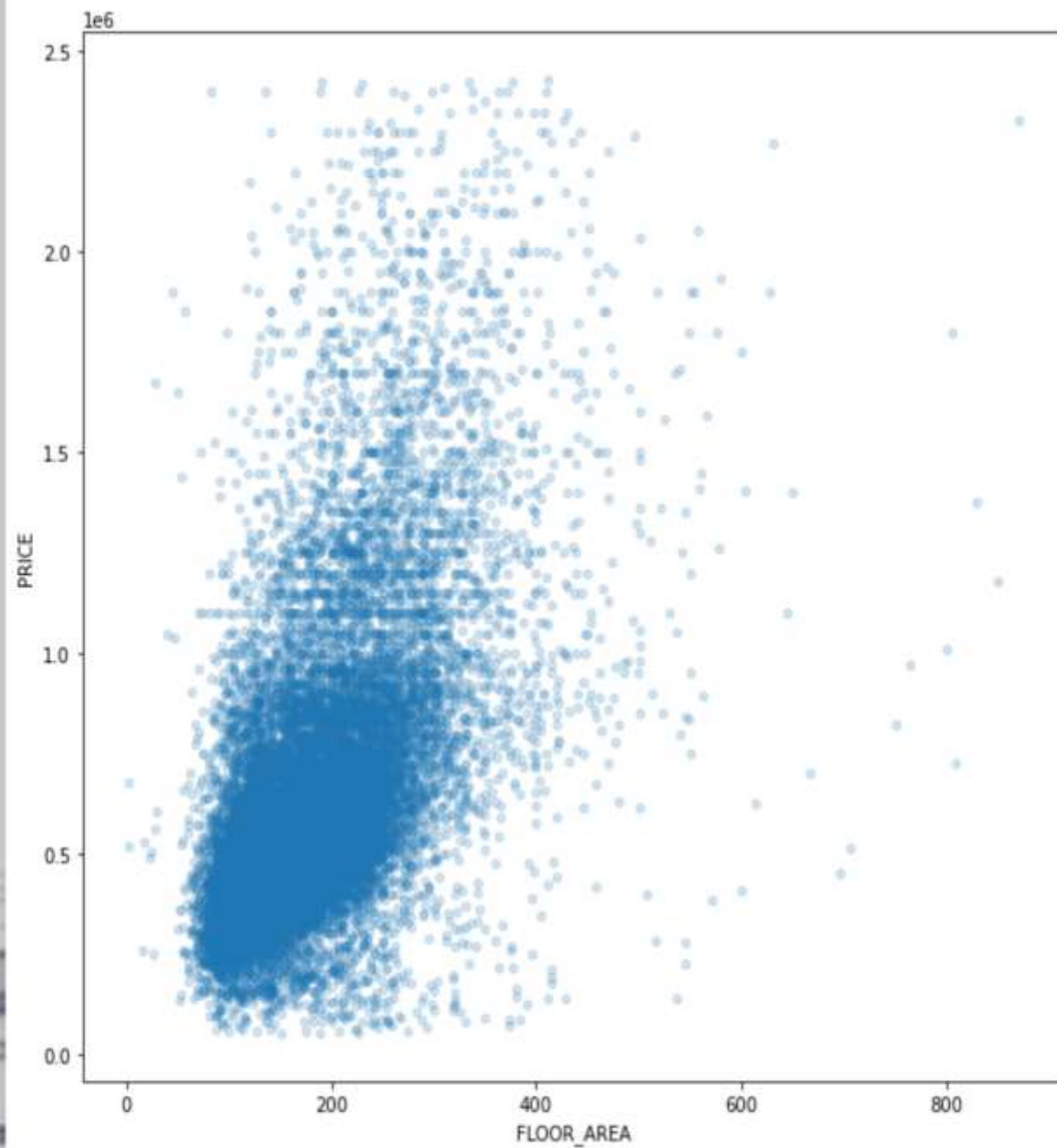
using
(opestreetmap.org)
website to visual





Correlation Between the Target (Price) and Features.





cont..

Model Type	Training	Cross Validation(Mean)
Linear Regression	0.532	0.531
Polynomial (degree 2)	0.702	0.675

