Using regression model to predict the rental price of the shops in Riyadh

Abstract

In the framework of working to achieve the Kingdom Vision 2030, Crown Prince Mohammed bin Salman announced the launch of the Kingdom's strategy to develop the city of Riyadh within the framework of its plans to diversify sources of income and develop the economy in the KSA With this announcement, the city of Riyadh became a target for investors and businessmen. In this model, we will help investors to provide investors with property prices according to the specifications they require by predicting rent prices for shops in Riyadh.

Design

Website ifo: Aqar site is a Saudi site that displays real estate ads in various regions of the Kingdom of Saudi Arabia.

Problem statement: Helping the investor to predict the rental price of the shop.

Data

Data will be scraped from the Aqar website from Rent shops in Riyadh

- Scope:

Data size: 6 columns – 1540 rows.

Features: area – front – street width – age – Region.

Response: Price.

Algorithms

1- Problem understanding.

2- Data scraping.

3- Data cleaning:

- Nall values.
- Duplicate rows.
- Structural error.

4- EDA.

5- Feature selection.

6- Modeling.

Tools

The main technologies and libraries that will be used are:

Technologies: Jupyter Notebook – HTML.

Libraries: Pandas – Numpy – Matplotlib – BeautifulSoup -Seaborn – Sklearn.

Communication

- Charts: