Regression model

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Abstract:

The main goal of this project is to help my client to predict the prices of the real-estate in Riyadh with different regions and real-estate type like apartment-villa etc.

Design:

The data provided by buyout SA has the main information about the real-estate in Saudi Arabia and we web scraped the website and turn it into a data frame with the information that will help us achieve the goal then we EDA to do statistical analysis on the data then visually present them and do the regression model.

Data:

In this project we used the data from https://www.bayut.sa/ specifically Riyadh region real-estate and

Algorithms:

After web scraping the data we want it we transformed it into a data frame the we've done the data cleaning and removing the outliers, also we had a categorical features so we transformed them into dummies and see if the target we want is validating the linear then we split the data to train test and validate with the cross validation to see first what model we are going to use then used another set to validate that the train has similar R^ score

Tools:

- Jupyter notebook python
- Web scraping with beautiful soup and selenium
- kaggle
- Pandas,matplotlib,numpy,seaborn,statsmodels, sklearn,patsy,scipy
- Sqlalchemy

Communication:

- In addition to the slides and visuals presented, I will be sharing my work on my github account
- https://github.com/Tarfah98
- https://github.com/DimahAlbunayyih