

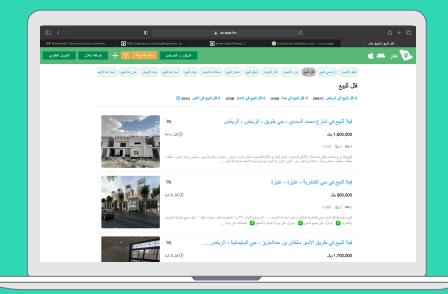
Aqar Linear regression model

Abeer AlRuwayti 27/9/2021



Agar website

Aqar website displays almost all Saudi real estates ads on Google Maps, navigate to the area you like and find your next home! You can directly contact the owner and make the deal.



Methodology

Web Scraping

EDA

Feature engineering

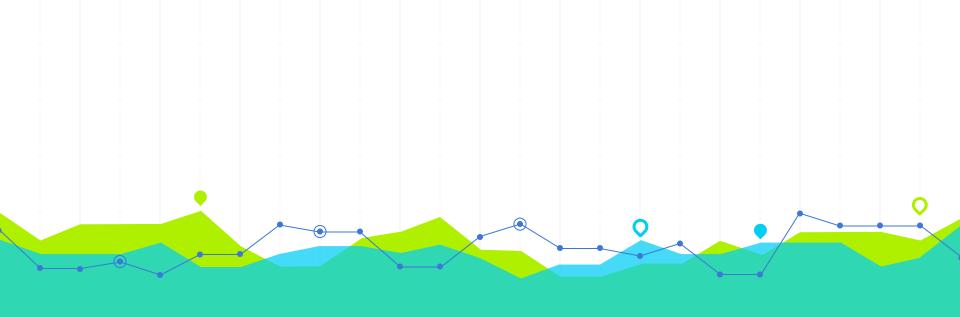
Linear regression models

Features

Area, Direction, Bed, Path Living, Street width, House age, Views

Target

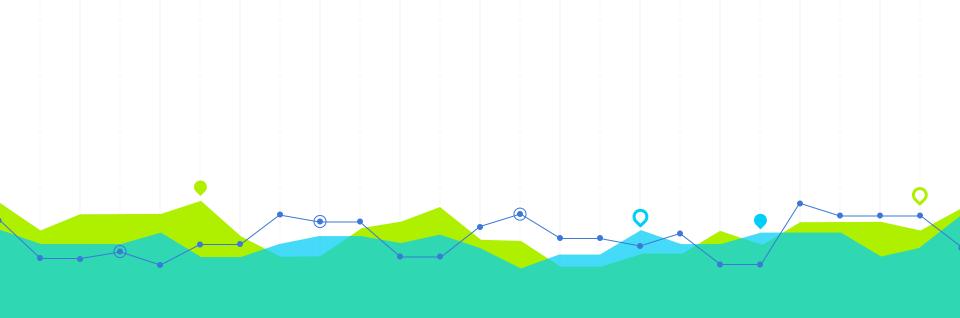
Price



Exploratory data analysis

Data cleaning





Feature Engineering

2

Feature engineering



Scaling

The ways to set the feature value range within a similar scale



Dummy variable

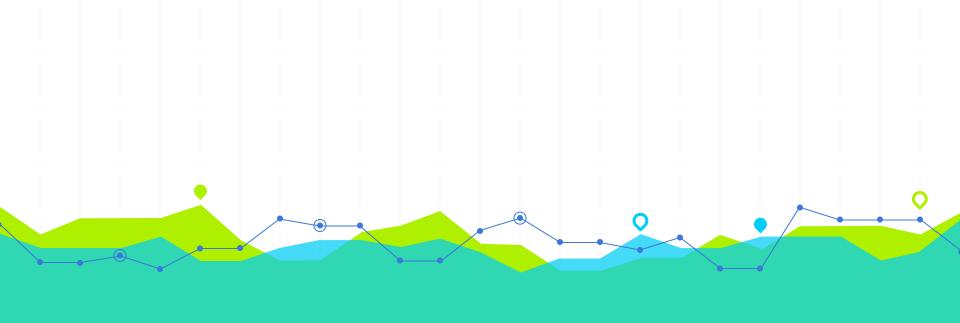
Is a numeric variable that represents categorical data such as direction and house age



Log Transform

Helps to handle skewed data and after transformation, the distribution becomes more approximate to normal.





Linear regression models

3

Models scores

Model	Training	Validation
Baseline model	0.04	0.03
Linear regression	0.1	0.08
Ridge (L1)	0.05	0.06
Lasso model (L2)	0.1	0.09
Polynomial Features	0.1	0.08

THANKSI

Any questions?