أكاديمية سدايا
SDAIA Academy

SDAIA-T5-Bootcamp

The Melbourne Housing Market

by Najla Alassaf | 14th. Nov, 2021.

Abstract

A key aspect of this study is to investigate the changes of the housing market in Melbourne, to predict real estate prices using prediction models to help both buyers and sellers to understand all factors that have big impact on the Housing Market and facilitate the work involved to make intelligent decisions.

Algorithms

For this project the liner Regression model is the one I will be using to predict the outcome we are hoping to reach. And Scikit-learn library to train the data.

Questions

- *What are the main parameters that affect the residential value?*
- *What is the relationship between residential and the price?*

Data Description

The data was created by Tony Pino which gathered via Domain.com.au., The dataset contains 18 features and 13581 examples.

The dataset includes the following features:

- **Address.**
- **Type of Real estate:** (br – bedroom /h - house, villa, terrace/ u - unit, duplex/ t – townhouse/ dev site - development site/ o res - other residential).
- **Suburb:** district.
- **Method of Selling**: (S - property sold/ SP - property sold prior/ PI - property passed in/ SN - sold not disclosed/ NB - no bid/ VB - vendor bid/ W - withdrawn prior to auction/ SA - sold after auction/ SS - sold after auction price not disclosed/ N/A - price or highest bid not available.)
- **Rooms:** number of rooms.
- **Price:** Price in Australian dollars.
- **SellerG:** Real Estate Agent.
- **Date:** date of sale.
- **Distance:** distance from Central business district "CBD".

Tools

- ✓ ***Jupyter Notebooks-Python***: I will use Pandans, Numpy and SciPy for EDA. And Matplotlip, Seaborn for visualization And Scikit-learn for the modeling.