House Price Prediction Analysis

By David Owen Oruko

The purpose of this project is to develop a model that predicts house prices

Predicting of house price is crucial to real estate agencies which gives insight to stakeholders whether to buy or to sell.

The benefits of accurate predictions are :

identify undervalued properties and making them profitable.

The business context of house price preidiction revolves around the real estate industry and its stakeholders, including buyers, sellersand investors.

Each stakeholders has a unique interests and objectives in relation to house price.

The dataset used for the analysis is acollection of real estate data that contain information about various properties.

The key features:

Price - sale price of house

Bedrooms

Bathrooms

sqft_living

In the data analysis phase, various techniques were applied to predict house prices :

1. Exploratory Data Analysis
2. Feature Engineering
3. Linear Regression
4. Random Forest model
5. XGBoost

The reuslts and insights were as follows :

1.Factors influencing House Price: Square footage of the living area

2. Positive relationship with the price

3. Waterfront properties

4. Insights from Buyers, Sellers and Investors

Recommendations:

Buyers: Use the house price prediction to determine a realistic budget and affirdability.

Sellers: Utilize the prediction to set competitive listing prices for your properties .

Ficus on improving the condition and grade of the property to increase market value.

Investors: Stay updated on market trends and inficators to make informed investment decisions.

Next Steps:

1. Fine tune and enhance existing predictions models.
2. Geospatial analysis.
3. Time -series analysis.
4. Market segmentation.
5. Collaborate with real estate experts.

Thank you for your attention !

oruko David Owen