PROPERTY INVESTMENT PROJECT

By Odhiambo Mumbi

AGENDA

Business Understanding

Data Understanding

Data Preparation

Modelling

Recommendations

PROJECT OVERVIEW

Real Estate is a big investment that requires careful analysis and strategic planning.

In this project we explore the investment opportunities in four chosen cities: New York, Chicago, Houston, San Fransisco using the ARIMA model.

BUSINESS UNDERSTANDING

PROBLEM STATEMENT

Real estate investment is a complex endeavour with various factors influencing the decision making process. The investors are faced with very many challenges when it comes to making such decisions and therefore we are tasked with the analysis of some of these factors.

BUSINESS OBJECTIVES

The main objective of this project is to address the problem of investor uncertainty and risk mitigation in real estate investments.

KEY DELIVERABLES

ROI analysis both historical and for future long-term plans.

Recommendation on diversification strategies

DATA UNDERSTANDING

DATASET
Zillow dataset

DATE
1996 TO 2018

CITIES
New York, Houston, Chicago, Los Angeles

MODEL SELECTION

Autoregressive Integrated Moving Average Model (ARIMA MODEL)

RECOMMENDATIONS

Explore different orders of the model to see if a better fit can be found.

Explore additional models not just one

Investigate additional data trends and detrending techniques

The investors should sunction the conduction more analysis using different models so that better results may be prompted.

THANK YOU