Project Group & Topic

CSP 571 Data Preparation and Analysis

1. Project Group:

Group Members:

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Group Leader:

- Abhiram Ravipati

2. Project Topic:

Application Subject Area:
USA Real Estate Analysis

Specific Data Set and Sources:
Data Set is obtained from Kaggle

Reference Resources:

[1] Choy, Lennon & Ho, Winky. (2023). The Use of Machine Learning in Real Estate Research. 12.740.10.3390/land12040740.z

[2] Gale, H., Roy, S.S. Optimization of United States Residential Real Estate Investment through Geospatial Analysis and Market Timing. Appl. Spatial Analysis 16, 315–328 (2023).

[3] Kumar, Sailaja & KameshwariSoundarya, & Harshitha, R. & EvangelinGeetha, D. & T.V., Suresh. (2018). Real estate data analysisusing principal component analysis and 'R'. International Journal of Pure and Applied Mathematics. 119. 1535-1541.

[4] Real Estate Data Analysis with Python

https://medium.com/@kingsleyofori/real-estate-data-analysis-with-python-b0004baf9abb

[5] Real Estate Analysis and Modelling using Python

https://medium.com/@filipesampaiocampos/real-estate-data-analysis-and-modeling-using-python-184252d60189

Overview of the Project:

Our project focuses on analyzing real estate data to gain insights into market trends, property characteristics, and historical sales data. The dataset includes information about the real estate agency or individual responsible for property sales, the current status of property listings, listed prices, bedroom and bathroom counts, property size, address specifics such as street name, city, state, and postal code, as well as the size of the house and the date of the property's previous sale. Through meticulous analysis, we aim to uncover patterns and correlations within the data, providing valuable insights for decision-making in the real estate industry.