Beyond the Great Wall Data Science Meets Beijing Real Estate



From Raw Data to Insights

Preprocessing Beijing's Housing Data

Preprocessing

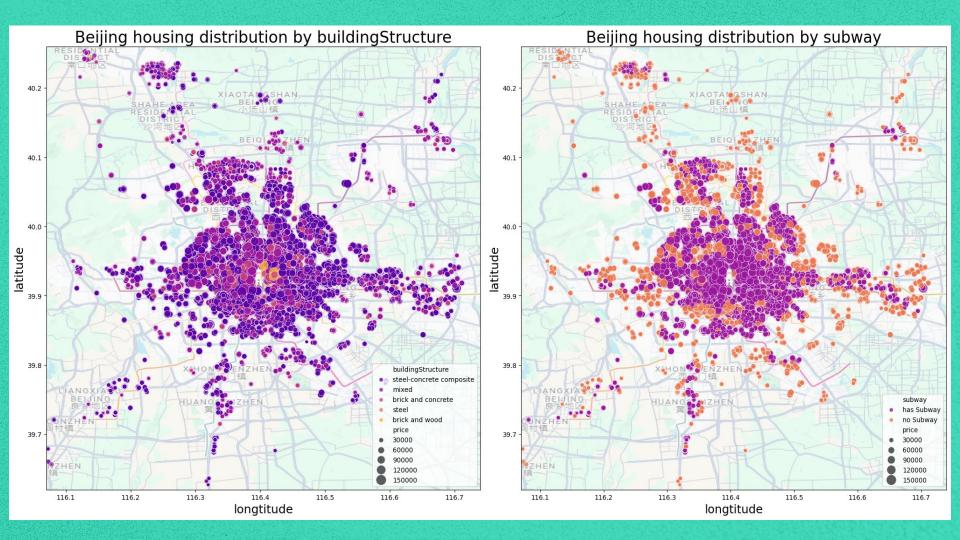
- over 300,000 properties.
- 26 features ,Including price, geographical coordinates, and property characteristics.
- translating Chinese terms.
- handling missing values (dropping 'DOM' and delete other rows).
- feature engineering (extracting 'floorNumber').



Geospatial Data Science

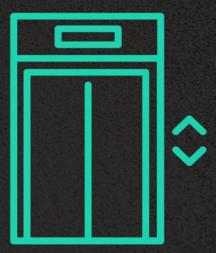
Mapping Beijing's Property Features

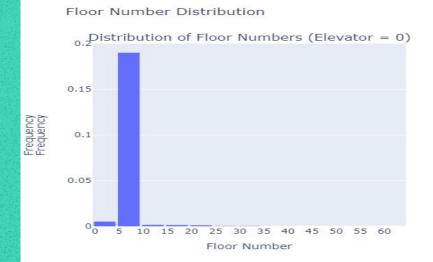


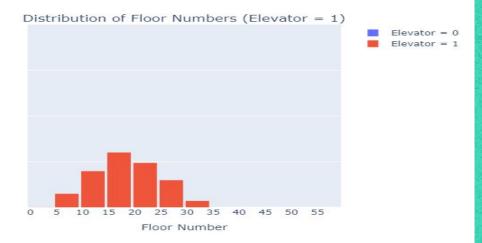


Vertical Living in Beijing

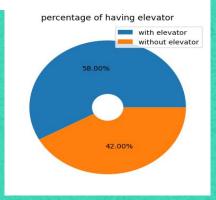
Data-Driven Insights on Floor Numbers and Elevator Access





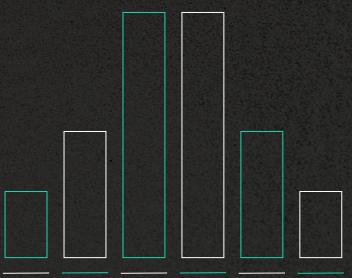


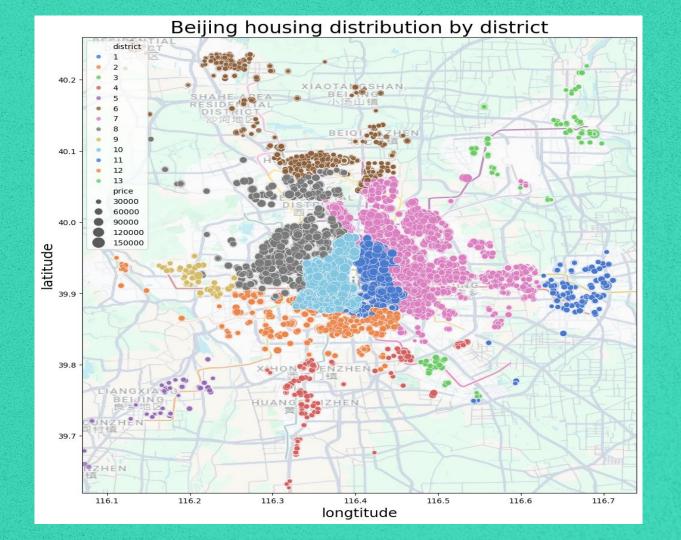
As you can see in the plots, houses with higher
`floorNumber` have elevators, and most houses with no
elevator are under 10 floors.



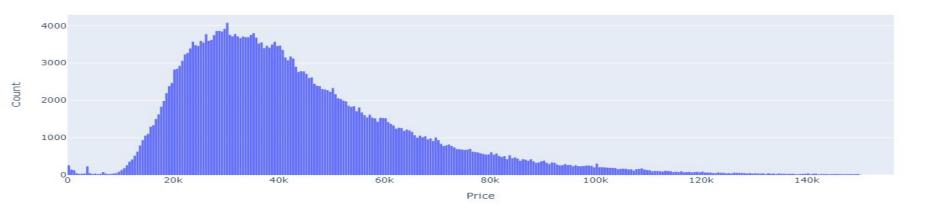
EDA Techniques

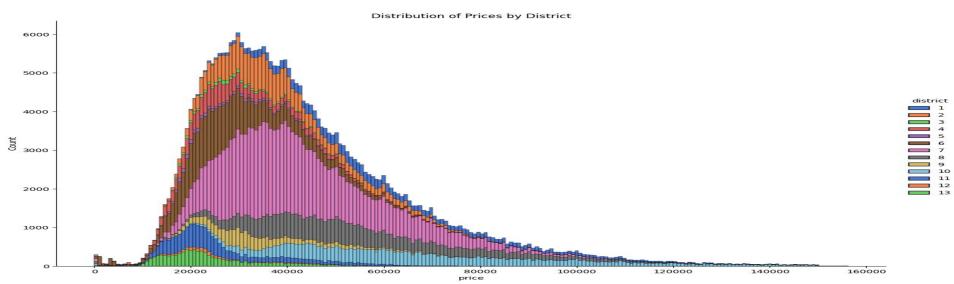
Unraveling Price Patterns Across Districts





Distribution of Housing Prices



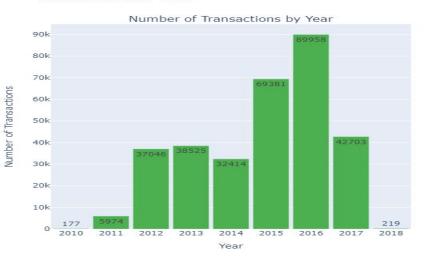


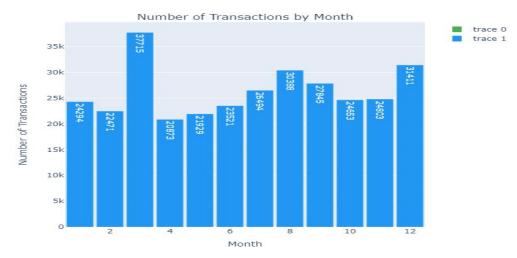
Unveiling Market Dynamics

Temporal Analysis in Data Science

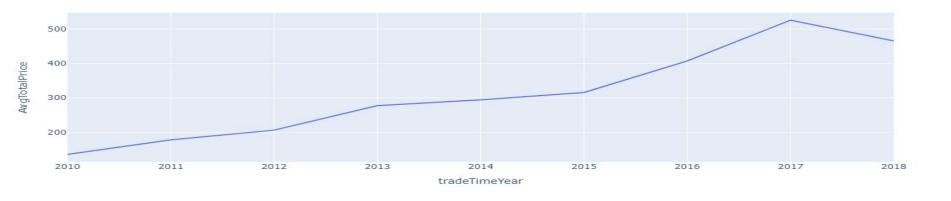


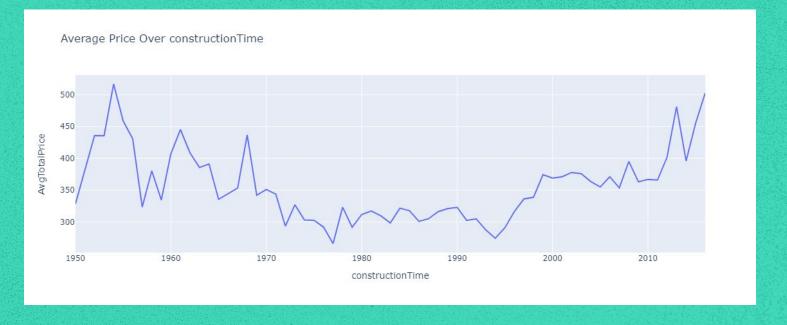
Transactions over Time





Average Price Over tradeTimeYear





Data analysis reveals that newer Beijing properties command higher average prices, with a negative correlation between construction time and price. However, this trend may be skewed by limited data on older properties.

That's All, Folks!