Project_02

Singapore Housing Data & Kaggle Challenge

Lim Zi Ming

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Background:

- Rapid surge in property values

- Social equity concerns

- Balancing growth and affordability

THE BUSINESS TIMES

Singapore government keeping close watch on property market
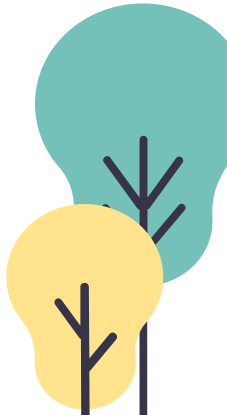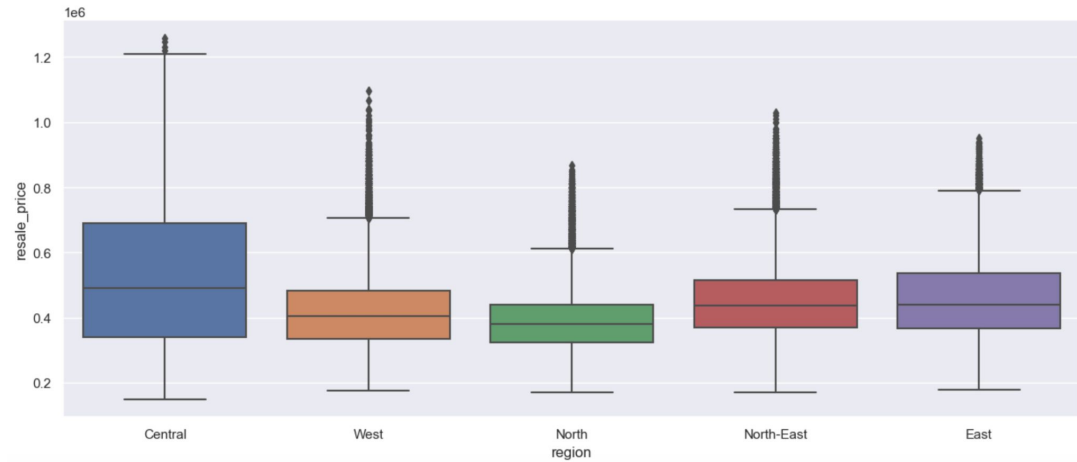
Problem Statement

This project aims to develop a regression model that can accurately predict housing prices based on various factors such as property features, location, economic indicators, and demographic trends.

MY**HOME**

Numerical

Variables

Selection

Correlation Heatmap of Numerical Variables

Correlation Heatmap of Numerical Variables

Numerical

Variables

Selection

Categorical

Variables

Selection

Train Test Split

Dividing dataset into 2 subsets:
- Train Set - Train the model
- Test Set - Evaluate model's performance

Numerical Features

StandardScaler:
Scales the data into the same size

Categorical Features

get_dummies:
Converts data into numerical format

Linear Regression

Train: -1.9e+17
Test: 0.72
Terrible!

Ridge Regression

Train: 0.79
Test: 0.73
Best!

Lasso Regression

Train: 0.78
Test: 0.71
Good

Selected Model

Ridge Regression!

True Values vs Predicted Values
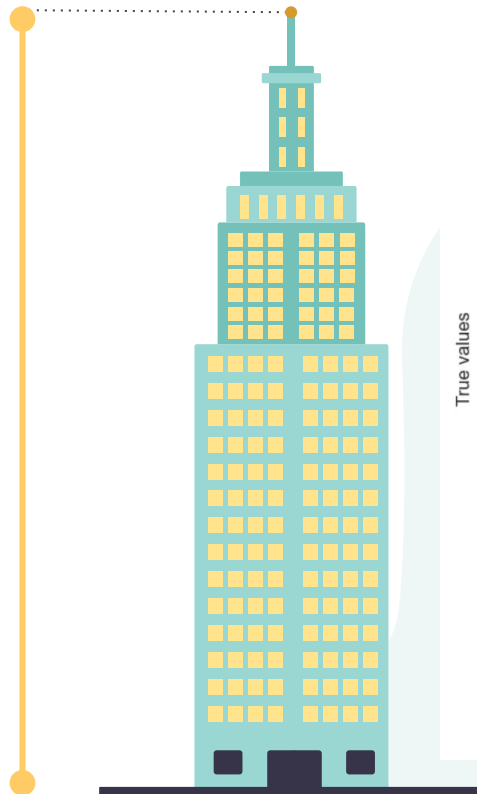
Submission and Description

✅ **result.csv**
Complete (after deadline) · 7h ago

Private Score ⓘ   Public Score ⓘ

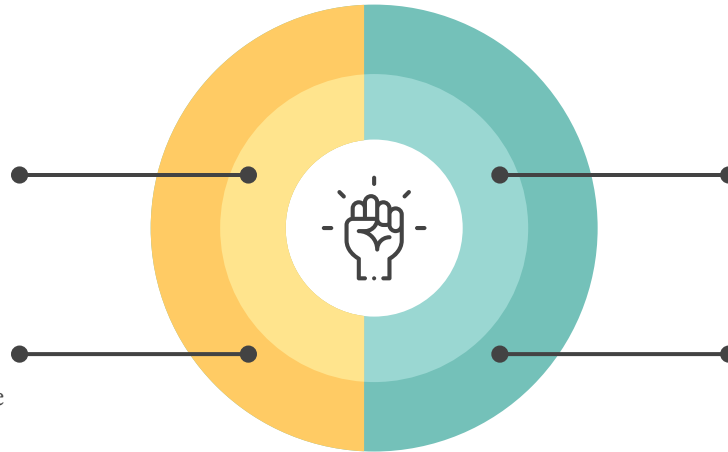66593.2626   66092.88454

Conclusion

Recommendations

Significant Factors:
- Flat Models
- Regions
- Floor Area Square Meter

Policy Insights:
- Valuable Insights
- Variables & Housing Price

Manage Speculation:
- Property Cooling
- Taxes

Regular Market Monitoring:
- Potential Housing Bubbles
- Maintain Market Stability

Stakeholders

- External factors: Government policies, interest rates.
- Collaboration with stakeholders, policymakers.

— The Future

THANKS

Does anyone have any questions?

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