Meeting Minutes – 4 June 2025

- Team trained models to hit business evaluation metrics:

Metric	Description	Preferred Value
MAPE	% difference between predicted and actual resale prices	<= 15%
PICP	How often the actual price falls inside the model's predicted range	>= 90 - 95%
RMSE	How far off the predictions are on average	< $100k

Market Trend Analysis

```
📉 Mean Absolute Percentage Error (MAPE): 4.68%
☑ Prediction Interval Coverage Probability (PICP): 91.76%
📉 Mean Absolute Error: 13024.01
📉 Root Mean Squared Error (RMSE): 18891.20
```
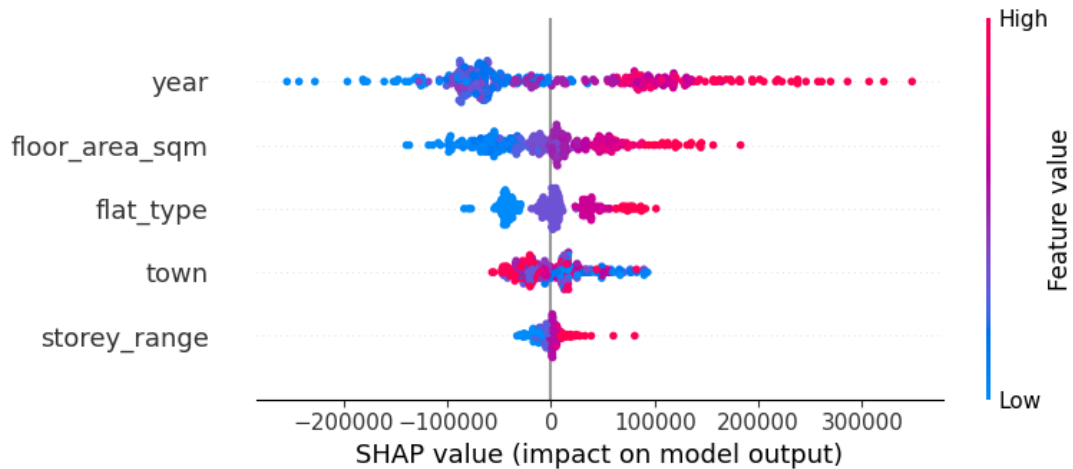

Demand Forecasting

```
XGBoost (lags [1, 3, 6, 12]) Performance:
   MAE : 5.2107
   RMSE: 9.2240
   MAPE: 8.5039%
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PICP: 96.17% | MPIW: 46.52
```

Rental Yield Prediction

RMSE
1082.76

MAPE
38.39%

PICP
70.8%

R² Score
0.5700

MPIW
2421.20
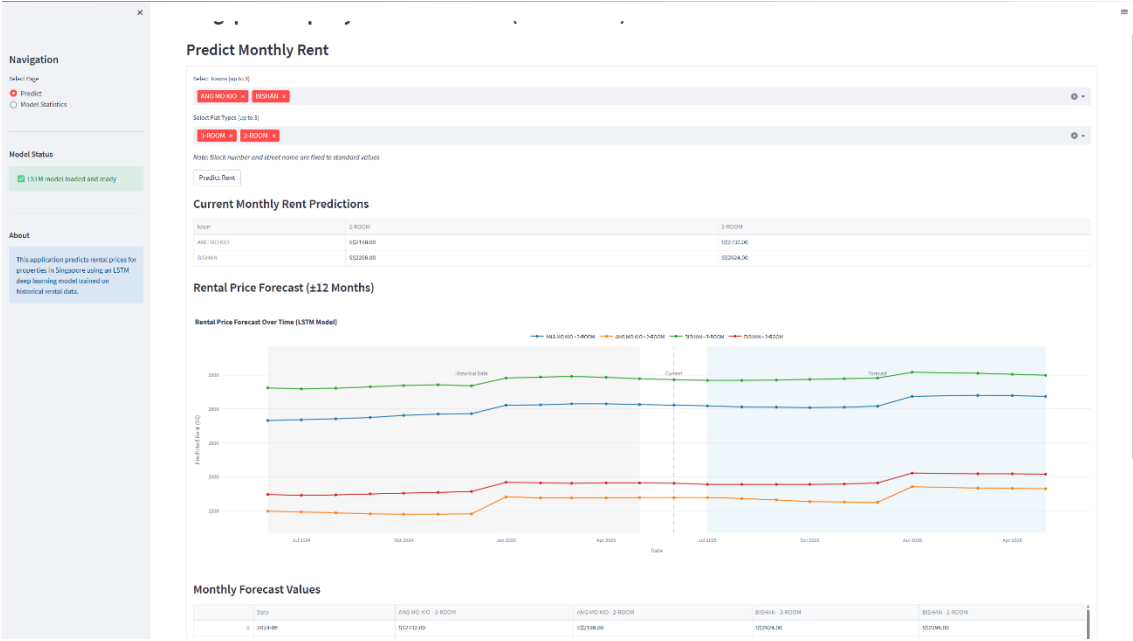
To-do:
- Upload codes to Github