

## **Meeting Minutes – 21 May 2025**

### Updates:

1. Rental Yield Prediction
  - Changed model from XGBoost to LSTM (XGBoost)
  - Added +/- 12-months time forecast chart
  - Updated data
  - Note: Sometimes ECS crashes
2. Demand Forecasting
  - Got UI working – predictions and charts
  - Deployed to ECS as well
3. Market Trend Analysis
  - Changed UI to dashboard-like page for visualisations
  - WIP making XGBoost model more accurate
  - Note: Sometimes ECS crashes
4. Predictive Price Analytics
  - Added graph for predictions
  - Slight error in how model works → working on improving it

### To-do:

- All models to predict a price value at least 6 months into the future
- Decide on one model for each area to continue working on
- Investigate and fix ECS crash issues
- Aim to reach metrics for business reliability and explain why model is reliable in predicting into the future
  - $MAPE \leq 15\%$
  - $PICP \geq 90-95\%$
  - $RMSE < \$100k$
  - SHAP summary (min. top 3 drivers)
- Can find and utilize more data from data.gov.sg that could be useful in improving models
- Push latest codes to Github