

Supermart Analytics — Model & Insights

- Objective: Clean data, build supervised model (predict Units), and extract business insights.
- Datasets: Items, Sales, Promotion, Supermarkets.
- Outputs: Trained model, metrics, figures, and this PDF.

Highlights

- End-to-end pipeline with synthetic fallback when CSVs are missing.
- RandomForestRegressor baseline with feature importances.
- Business insight: estimated promotion lift on unit sales.
- Top performing stores (by units).
- Bonus: RL maze demo (see PNG in figures).

Top Feature Importances





