## **Rossmann Store Sales Forecasting - Business Report**

## **Objective**

To forecast future sales for Rossmann stores using historical data, helping optimize inventory, staffing, and promotional strategies.

#### **Models Used**

## **Future Sales Forecast (August 2015)**

- Weekly predicted sales remained consistently high (approx. 48-49 million per week).
- Promo Days: Insufficient promo data (0), needs cleanup for deeper insight.
- Top 10 Stores: Generated over ~630K predicted sales each.
- Bottom 10 Stores: Around ~480K-495K may need attention for uplift.

#### **Insights & Recommendations**

- High-performing Stores: Stores like 261, 213, 489 are high-value prioritize for inventory & staffing.
- Low-performing Stores: Stores like 925, 881, 665 might benefit from targeted promotions or review.
- Promo Analysis: Ensure promo data availability for deeper analysis.
- Model Strategy: XGBoost is production-ready fast, accurate, and explainable.

### **Key Business Value**

# **Rossmann Store Sales Forecasting - Business Report**

- Enables data-driven planning for upcoming months.
- Helps optimize marketing spend and staffing resources.
- Foundation for explainability (SHAP) and store-level business strategy.