

Project : Demand forecasting model for retail chain

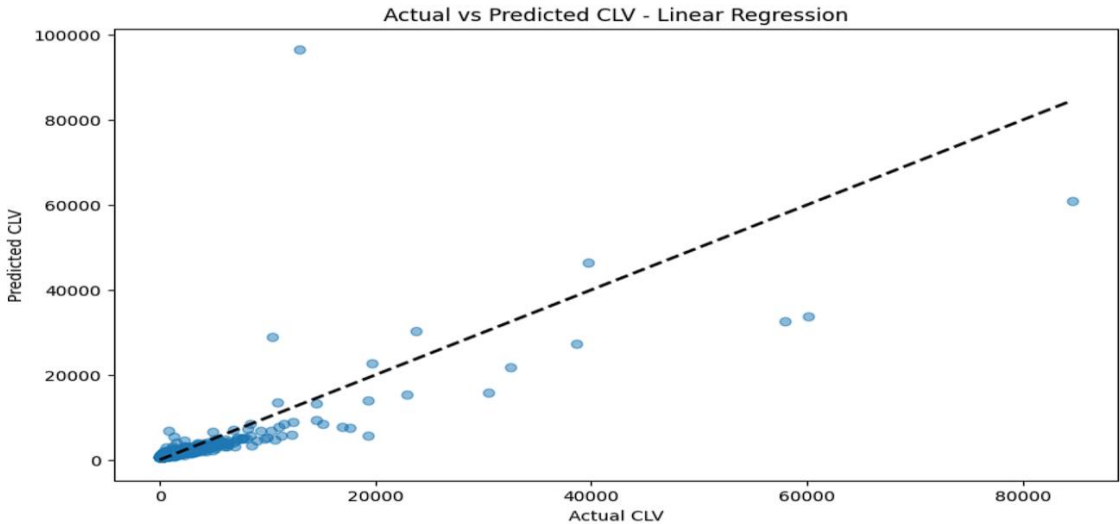
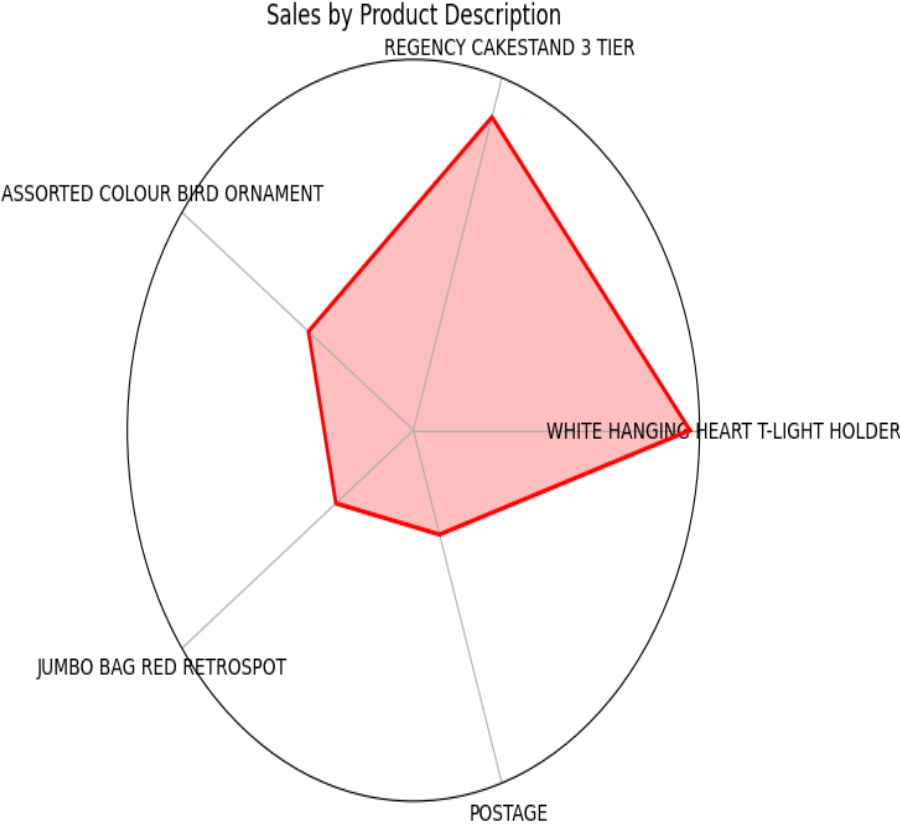
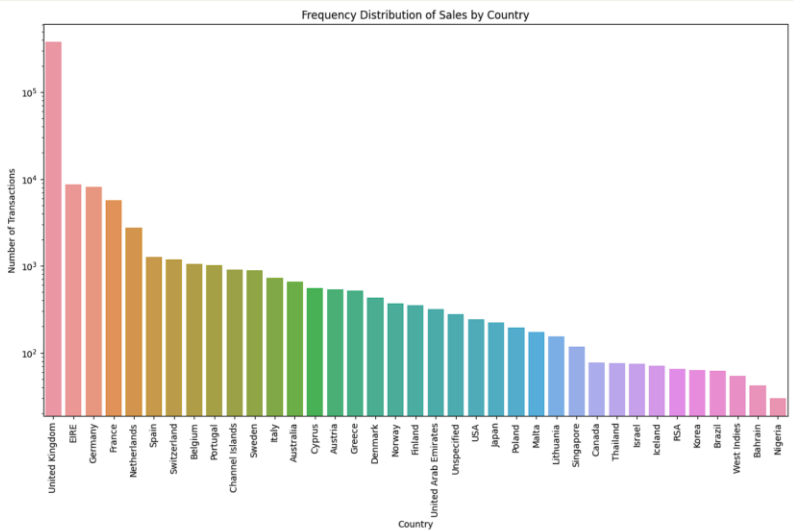
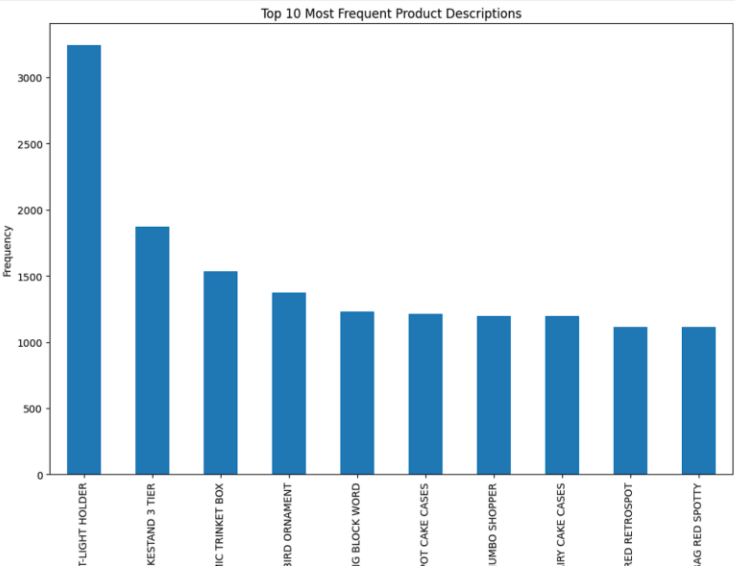
- **Introduction:**
- **Objective:** Develop a robust demand forecasting model incorporating past sales, promotions, holidays and demographics
- **IDLE used** : Jupiter Notebook
- **Data set source** : Kaggle
- **Model building** : Linear Regression , Decision Tree , Random Forest , Gradient Descent
- **Data Dive** : exploring past sales , promotions , holidays and demographics



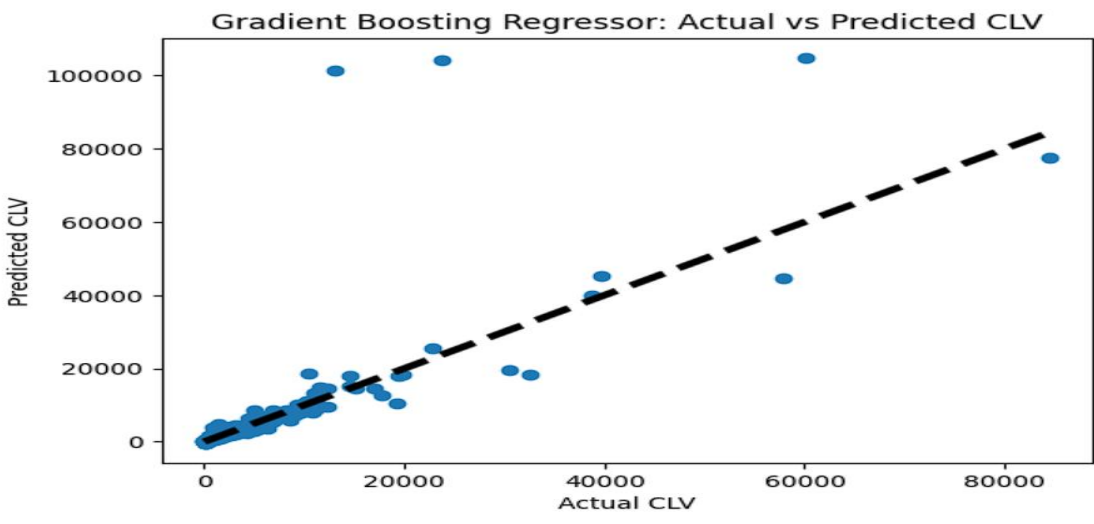
Insights Galore : Uncovering hidden patterns through univariate and Bivariate analysis

Model Evaluation : Assessing Performance via MAE , RMSE AND Cross-Validation

Riches Revealed : Comparing model performances and extracting actionable insights



RMSE: 3580.0201262561745
R-squared: 0.5401189893281784



Gradient Boosting RMSE: 4478.157292686068
Gradient Boosting R-squared: 0.28042970202026907