

Data Science Internship at Data Glacier

Project: Retail Forecasting

Week 7: Deliverables

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1. Project description

Dataset was provided by a large beverage company in Australia. They sell their products through various super-markets and also engage into heavy promotions throughout the year. Their demand is also influenced by various factors like holiday, seasonality. They needed a forecast of each of the products at item level every week in weekly buckets.

2. Business Understanding

Determine Business Objectives:

1. Forecast the item level of 6 products at each week

Assess Situation (Assumptions):

1. Relationship exists between sales and holidays
2. Relationship exists between sales and promotion
3. Relationship exists between sales and Covid
4. Relationship exists between sales and Google Mobility
5. Relationship exists between sales and discount
6. Relationship exists between sales of one product and another

Determine Data Science Goals:

1. Build 4-5 multivariate forecasting model
2. Demonstrate best in class forecast accuracy

3. Write a code in such a way in order to run the model in least time
4. Demonstrate explainability in the form of contribution of each variables

Project Plan:

1. Week 7: Business understanding
2. Week 8: Data Understanding
3. Week 9: Data Cleaning and preparation
4. Week 10: EDA
5. Week 11: EDA presentation and proposed modelling technique
6. Week 12: Model selection and model building