Food Demand Forecasting for Food Delivery System

Project Description:

A food delivery service has to deal with a lot of perishable raw materials which makes it all, the most important factor for such a company is to accurately forecast daily and weekly demand. Too much inventory in the warehouse means more risk of wastage, and not enough could lead to out-of-stocks - and push customers to seek solutions from your competitors. The replenishment of the majority of raw materials is done on weekly basis and since the raw material is perishable, the procurement planning is of utmost importance, the task is to predict the demand for the next 10 weeks.

Dataset: https://www.kaggle.com/kannanaikkal/food-demand-forecasting

I've used already available dataset in the kaagle which contains three main tables such as meal_info center_info and number of orders.

DataPreprocessing

As part of Data Preprocessing I've used Data Integration where I've combined mean_info and center_info to the num_orders table and the type of join I have used here is Inner join. After the succesfull completion of inner join I've checked for any null values in the column but there are no null values in the dataset. After the integration I've converted the dataframe into food.csv which I had placed in the DataSets file

Data Visualizatio

The info regarding this is clearly explained in the video

Video link :
https://drive.google.com/file/d/1KBHT1ca7b205z2veMRi6oF9atbg0KciN/view?usp=sharing