Supplement Sales Prediction

Gotcha

- Noticed nearly the same ups and downs in all 365 store's sales plot and all plot looks similar.
- Holidays are the same for all stores in train data and test data.
- Still, holiday configuration will require in the model.
- Facebook Prophet will do better in the configuration of special days as holidays, so here I am using Facebook Prophet.

Preprocessing

- No preprocessing at beginning
- For all 365 stores give store_id in each forecast data frame, so it can be merged in the test data frame.
- At the end collect all 365 data frames and concatenate them to a single data frame as the final forecast.
- Join two data frames Df_test and final forecast by merge method.

Model

- Finally Forecast for each of 365 stores by Facebook Prophet Separately, with holidays configuration.