Project 1_Group30 Framework

Problem & Data

Walmart Inc wants to keep up with changes in demands. The data is provided and contains weekly sales between 2010/09/05 to 2012/09/07 with 10 given features.

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Data Preprocessing

We mainly use **DataFrame** due to its numerous well-developed functions. We modified the dataset with the following aspects:

- -Merge training and testing data respectively
- -Replace NaN by 0
- -Convert Dtype "Object" and "string" into "int" and "Float"

ML Model

We chose XGBRegressor in Xgboost because it had eyecatching performances in lately machine learing competitions. We also tested some parameters and finally decided:

n_estimators = 600, max_depth = 8, learning_rate = 0.45

Predict & Output

After predicting, we combine the Store, Dept, and the Date tags and output the submission csv file with MAE=2253.32 on kaggle and MAE=1665.50, accuracy=0.97 by self-testing.