Assessment Task

M A C H I N E   L E A R N I N G

In this assessment task, you are required to forecast sales.

You are provided with historical sales data for 45 BigMore retail stores located in different regions. Each store contains many departments, and you must project the sales for each department in each store.

You may only use the provided data to make your predictions.

Data Information

You are provided with historical sales data for 45 BigMore stores located in different regions. Each store contains a number of departments, and you are tasked with predicting the department-wide sales for each store.

stores.csv
This file contains anonymized information about the 45 stores, indicating the type and size of store.

train.csv
This is the historical training data. Within this file you will find the following fields:
- Store - the store number
- Dept - the department number
- Date - the week
- Weekly_Sales - sales for the given department in the given store
- IsHoliday - whether the week is a special holiday week

test.csv
This file is identical to train.csv, except weekly sales. You must predict the sales for each triplet of store, department, and date in this file and submit when done.

features.csv
This file contains additional data related to the store, department, and regional activity for the given dates. It contains the following fields:

- Store - the store number
- Date - the week
- Temperature - average temperature in the region
- Fuel_Price - cost of fuel in the region
- CPI - the consumer price index
- Unemployment - the unemployment rate
- IsHoliday - whether the week is a special holiday week

For convenience, the four holidays fall within the following weeks in the dataset (not all holidays are in the data):

Holi: 12-Feb-14, 11-Feb-15, 10-Feb-16, 8-Feb-17
Rakhi: 10-Sep-14, 9-Sep-15, 7-Sep-16, 6-Sep-17
Diwali: 26-Nov-14, 25-Nov-15, 23-Nov-16, 29-Nov-17
Christmas: 31-Dec-14, 30-Dec-15, 28-Dec-16, 27-Dec-17

Submission

You are required to submit the test.csv file with 'SalesForcast' column filled in.