WALMART DATASET

WALMART STORE SALES PREDICTION - REGRESSION PROBLEM



DESCRIPTION

- One of the leading retail stores in the US, Walmart, would like to predict the sales and demand accurately. There are certain events and holidays which impact sales on each day. There are sales data available for 45 stores of Walmart. The business is facing a challenge due to unforeseen demands and runs out of stock some times, due to the inappropriate machine learning algorithm. An ideal ML algorithm will predict demand accurately and ingest factors like economic conditions including CPI, Unemployment Index, etc.
- Walmart runs several promotional markdown events throughout the year. These markdowns precede prominent holidays, the four largest of all, which are the Super Bowl, Labour Day, Thanksgiving, and Christmas. The weeks including these holidays are weighted five times higher in the evaluation than non-holiday weeks. Part of the challenge presented by this competition is modeling the effects of markdowns on these holiday weeks in the absence of complete/ideal historical data. Historical sales data for 45 Walmart stores located in different regions are available.



ABOUT THIS DATA SET

This is the historical data that covers sales from 2010-02-05 to 2012-11-01, in the file Walmart_Store_sales. Within this file you will find the following fields:\

- Store the store number
- Date the week of sales
- Weekly Sales sales for the given store
- Holiday Flag whether the week is a special holiday week 1 Holiday week 0 Non-holiday week
- Temperature Temperature on the day of sale
- Fuel Price Cost of fuel in the region
- CPI Prevailing consumer price index
- Unemployment Prevailing unemployment rate

Note:

Holiday Events\

Super Bowl: 12-Feb-10, 11-Feb-11, 10-Feb-12, 8-Feb-13\ Labour Day: 10-Sep-10, 9-Sep-11, 7-Sep-12, 6-Sep-13\ Thanksgiving: 26-Nov-10, 25-Nov-11, 23-Nov-12, 29-Nov-13\ Christmas: 31-Dec-10, 30-Dec-11, 28-Dec-12, 27-Dec-13



EVALUATION PARAMETERS

 Notebook Python con el mejor modelo que permita pronosticar las ventas semanales.

