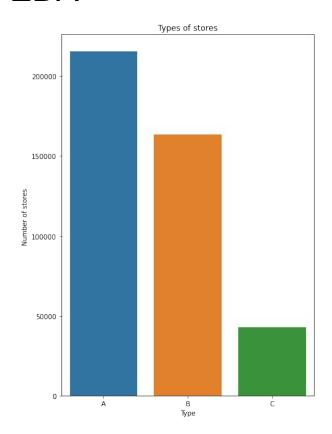
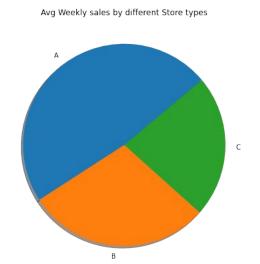
Sales Forecasting

By: Isha Kasar

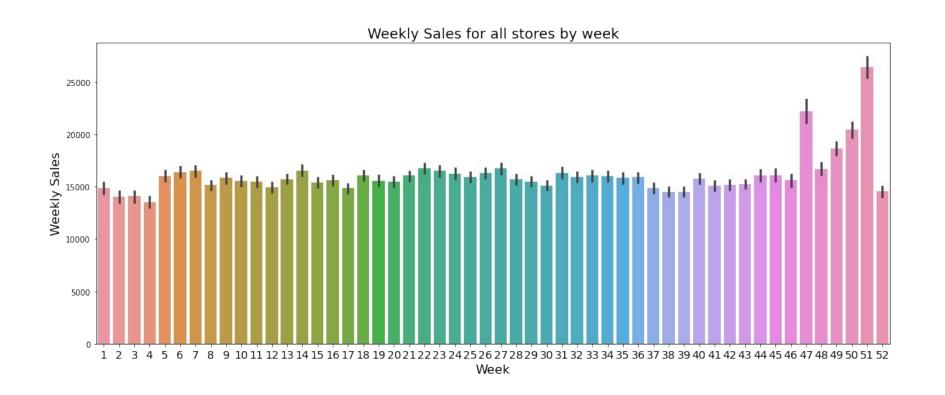
EDA



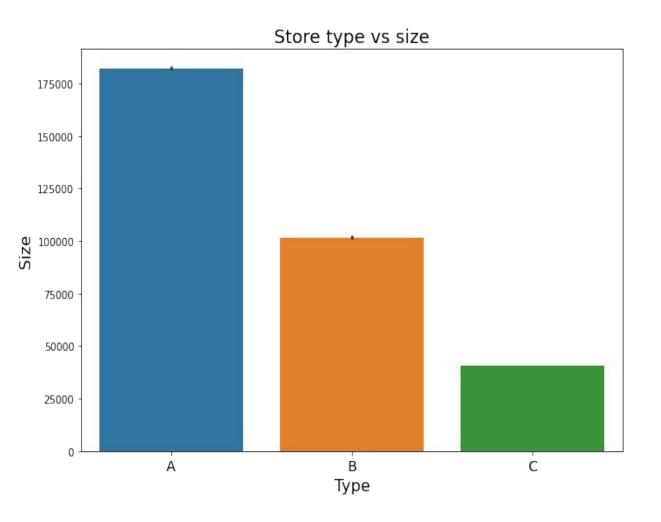


Types of stores and average weekly sales of individual store type

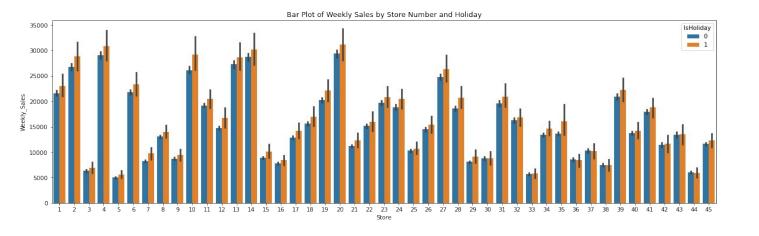
We can see some weeks in a month which shows hike.

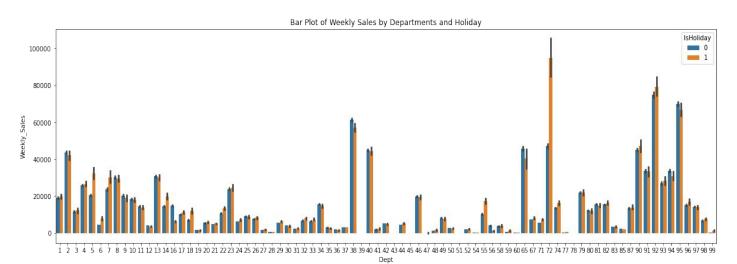


Thank You.

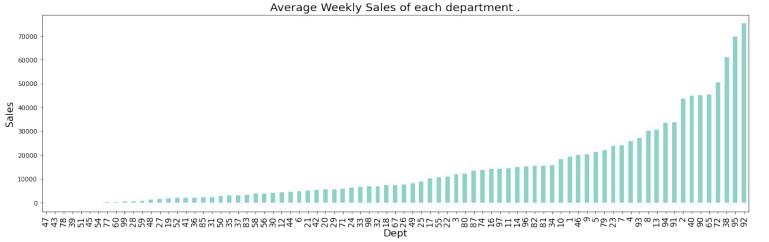


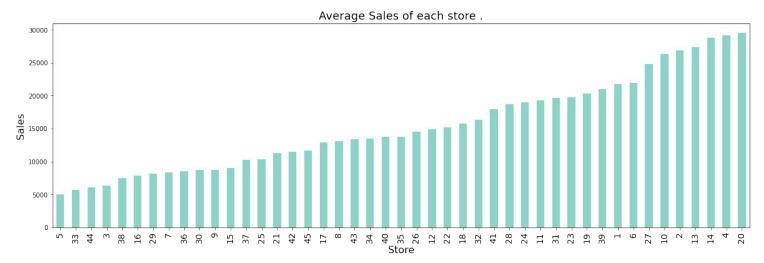
It is possible that type of store is decided by the size.



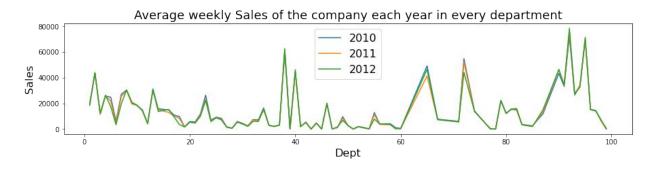


Effect of holiday on Store and individual departments.

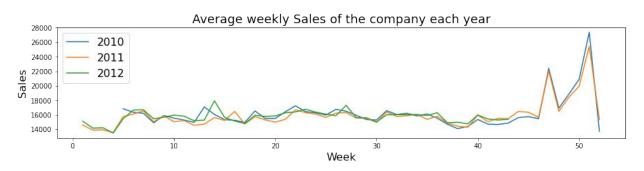




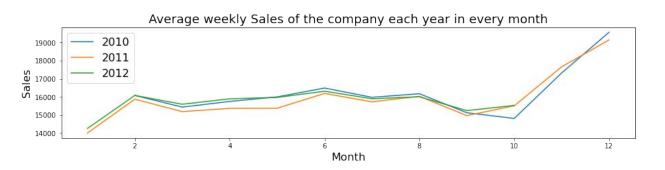
Average sales in every department and every store.



Sales in every department each year.

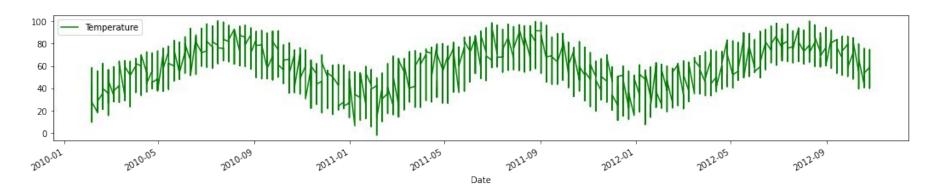


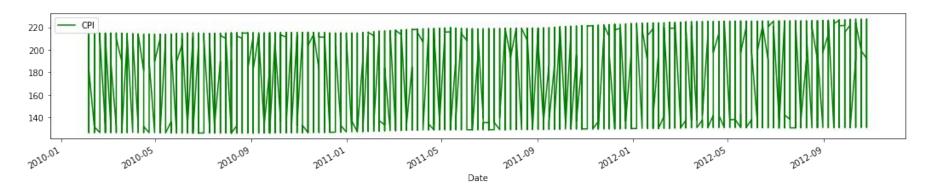
Sales every week each year.



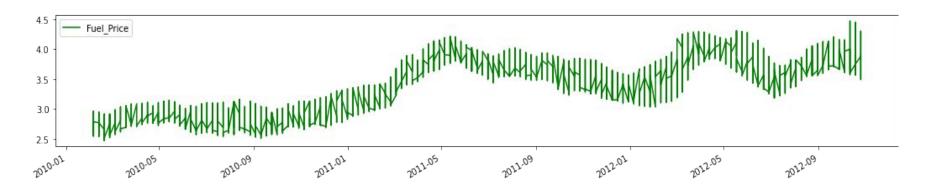
Sales every month each year.

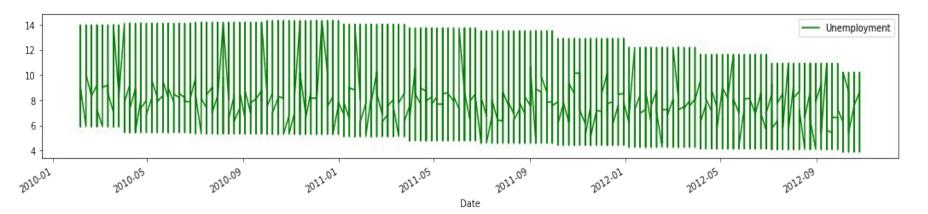
Trend of temperature and CPI

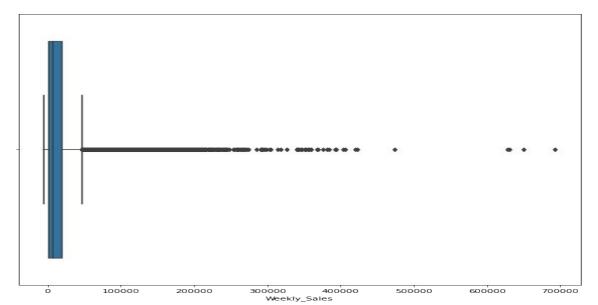




Trend of Fuel price and Unemployment

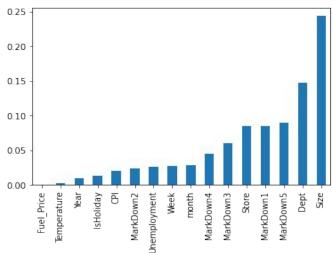




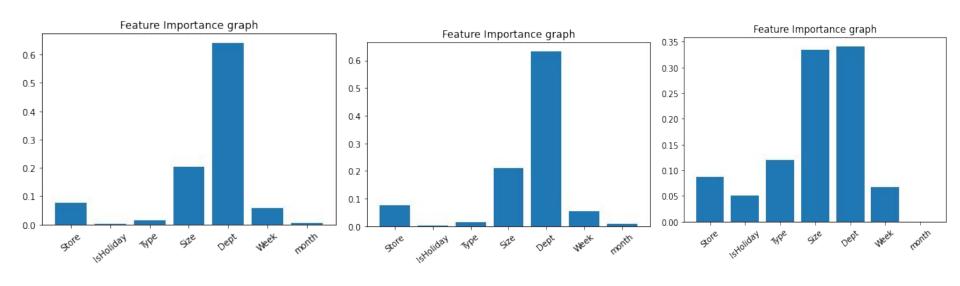


Box plot of dependent variable.

Correlation of all the variables with the dependent variable



Performance of all three models



model(destree)

Train Result R2 score 0.965107 MAE

1928.209170

model(rforest)

Train Result R2 score 0.970179 MAE 1757.568630 model(xgb)

[15:39:34] WARNING: /work

Train Result

R2 score 0.739240

MAE 6924.964723

Results of the model prediction, Actual and predicted sales of each year.

