

Problem 2

Graphs:

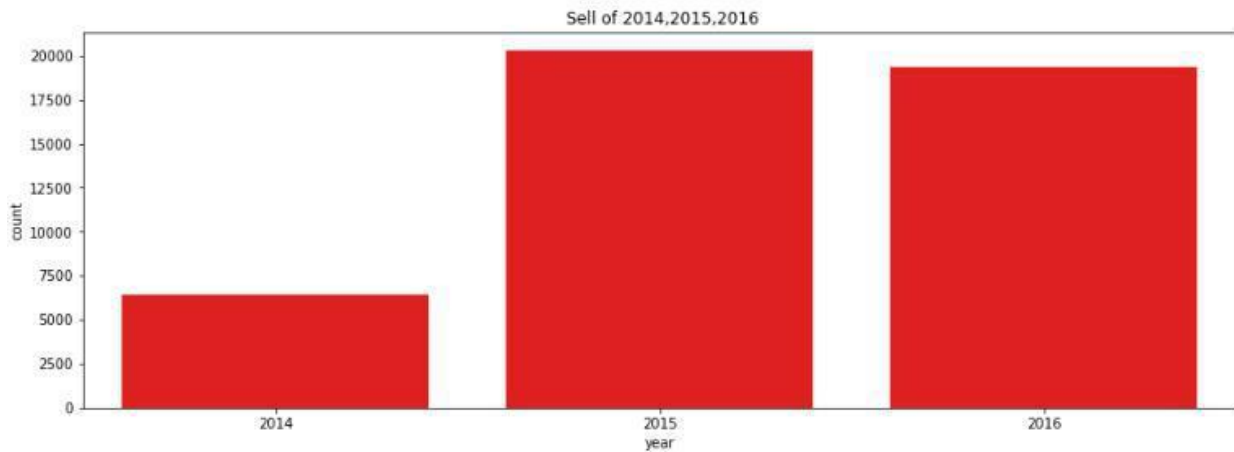


Figure 1

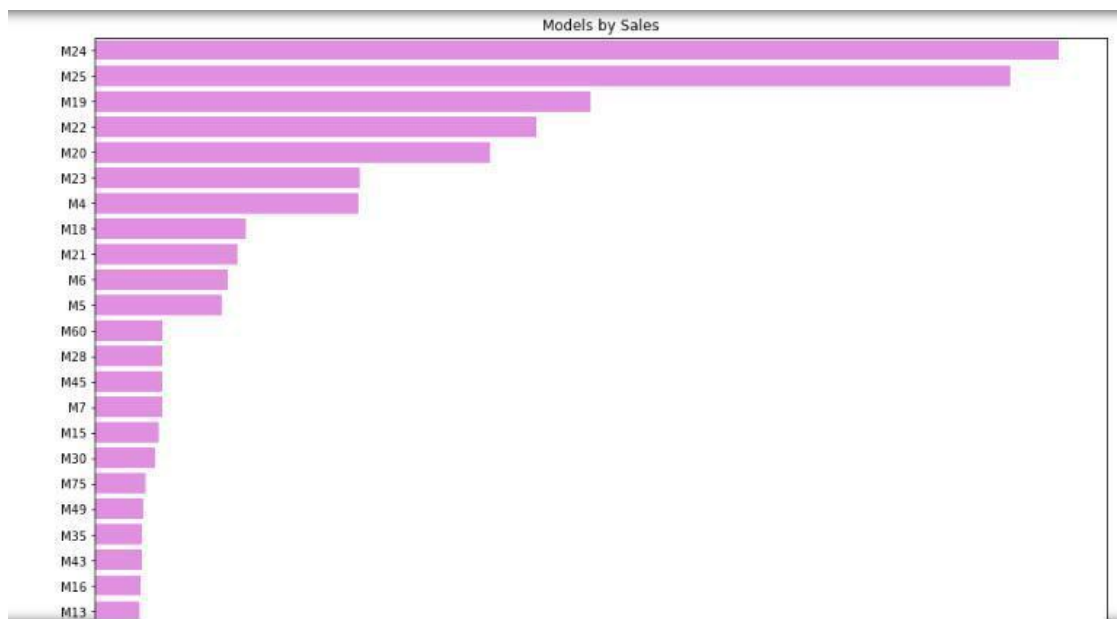


Figure 2

Name : Sadman Sakib

ID : 1620676042



Figure 3

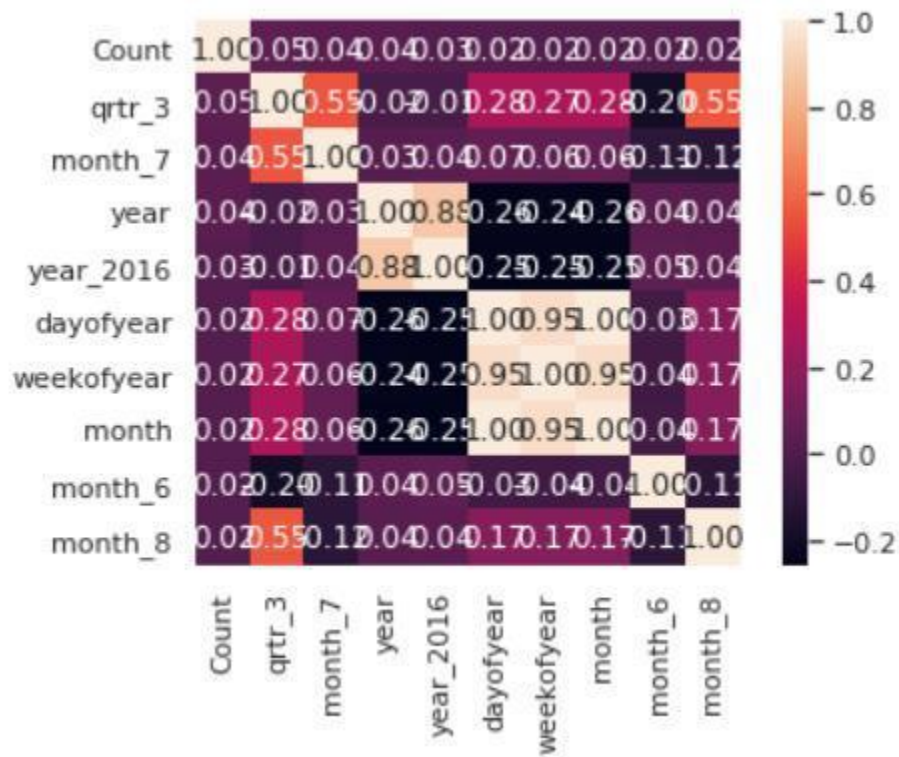


Figure 4 : Correlation Matrix

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ID : 1620676042

Graph Description

1. Figure 1 graph is counting sales by year of 2014-2016
2. Figure 2 graph shows how many models sold throughout 2014-2016
3. Figure 3 graph shows amount of sales by month
4. Figure 4 is of correlation Matrix

Regression Model Used

Linear Regression

Linear regression models are used to show or predict the relationship between two variables or factors. Here I have used linear regression model to find the Co-efficient, intercept and slope. So, from those I can find the MSE and RMSE of Training and Testing Data.

Table

Coefficient	0.0066
Intercept	31.226
Train (MAE)	129.045
Train(RMSE)	320.105
Test (MAE)	123.310
Train(RMSE)	304.662

ROC:

This is a Regression Model so there is no ROC model used