Capstone Project Weekly Progress Report

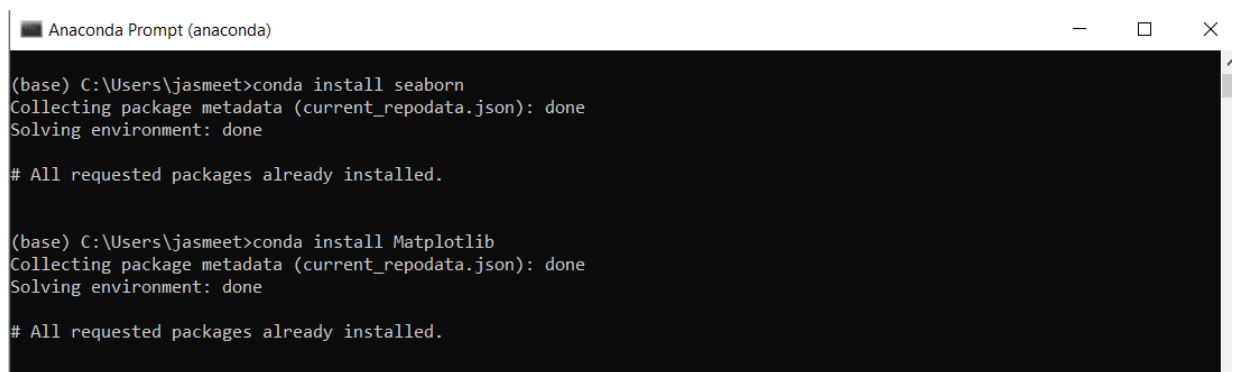|	
Project Title	Big Mart Data Visualization and Analysis
Group Name	Group D
Student names/Student IDs	Avik Kundal(744823),Jasmeet Kaur(744215),Kirandeep Kaur(742276),Savreet Kaur(742785),Sukhjinder Singh(743143)
Reporting Week	30 sept 2019 to 6 oct 2019
Faculty Supervisor	William Pourmajidi

1. Tasks Outlined in Previous Weekly Progress Report

To know the data types present the Big_Mart Data Set and to differentiate the categorical and numerical features.

2. Progress Made in Reporting Week

Libraries used for Visualizing the Big_Mart Data Set

- **Seaborn**
- **Matplotlib**

Function used in order to get proper plot

- **Sns.distplot()**-function is used to get plot of Item_Outlet_Sales using Matplotlib
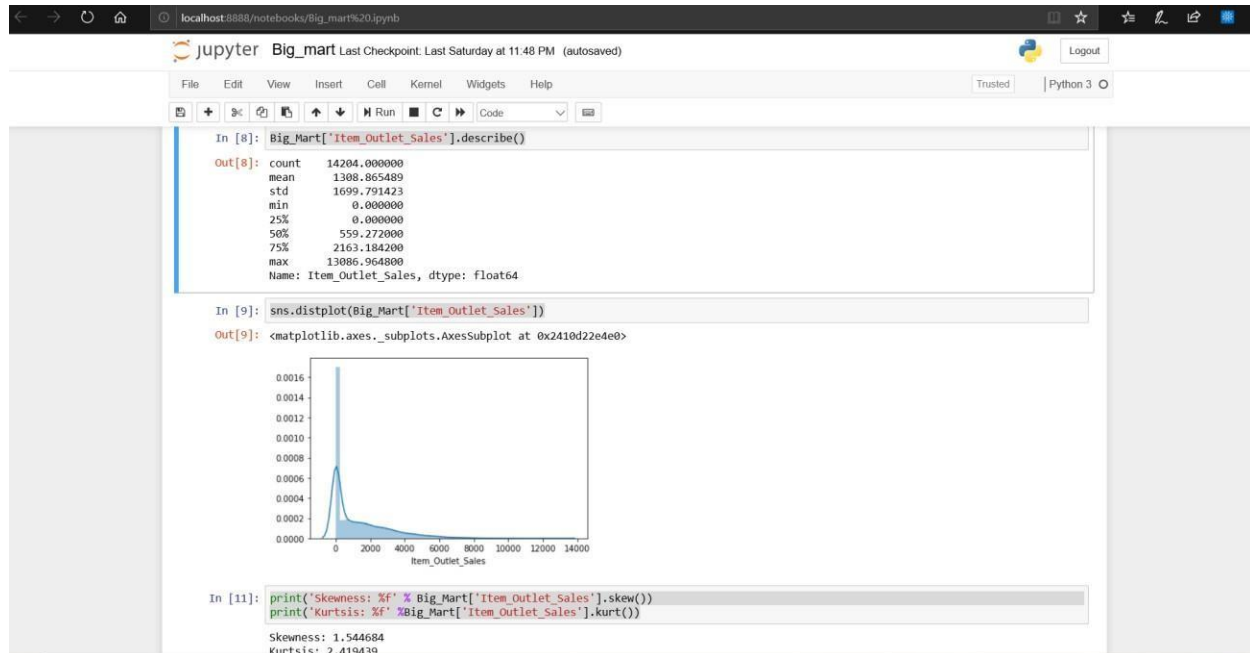
Big_Mart.datatypes-Get the Data Types of Variables present in the Big_Mart data set

#Filter categorical variables
- categorial_features = Big_Mart.select_dtypes(include=[np.object])

#Filter numerical variables
- numerical_features =Big_Mart.select_dtypes(include=[np.number])

Big_Mart['Outlet_Establishment_Year'].value_counts()- to count the number of outlets of different supermarkets that were established in particular year

3. **Difficulties Encountered in Reporting Week**

Choose proper function to visualize the output_sales using seaborn and to differentiate the categorical and numerical variables in Big_Mart data set.

4. **Tasks to Be Completed in Next Week**

Data Wrangling : Work on missing values or null values present in the data set**.**

Tableau : Learning how to work with tableau dashboard.