

# **Capstone Project Weekly Progress Report**

Project Title	Big Mart Data Visualization and Analysis
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<b>Group Name</b>	Group D
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Reporting Week	3 Nov 2019 to 9 Nov 2019
Faculty Supervisor	William Pourmajidi

### 1. Tasks Outlined in Previous Weekly Progress Report

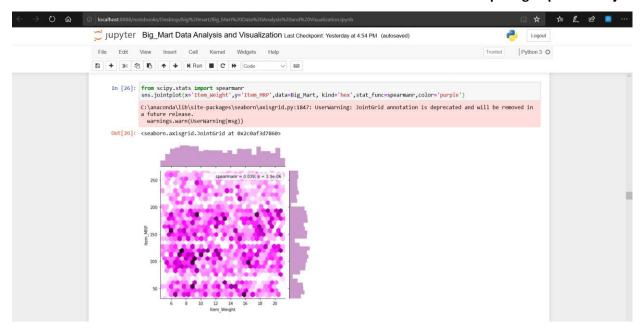
To use joint plot with spearmanr function and pair plot to find the correlation value between features and their relationships with respect to each other and to predict the customers' behaviours prevailing in market

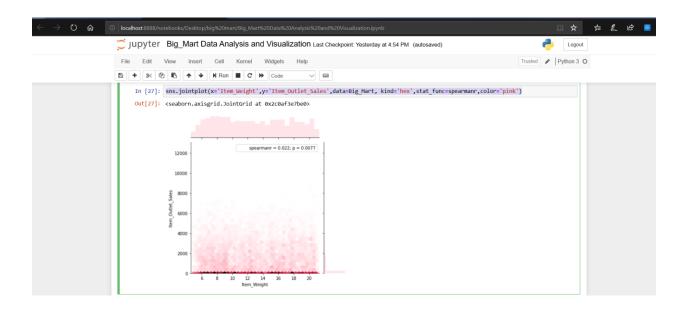
## 2. Progress Made in Reporting Week

- sns.jointplot(x='Item\_Weight',y='Item\_MRP',data=Big\_Mart, kind='hex')-Joint Plot uses Scatter Plot and Histogram.
- We can pass various parameters to jointplot like kind (reg, hex, kde), stat\_func(spearmanr), color, size, ratio etc.
- Spearmanr parameter displays the correlation between two variables.
- Value varies between -1 and +1 with 0 implying no correlation
- Correlations of -1 or +1 imply an exact monotonic relationship.
- Positive correlations imply that as x increases, so does y.
- Negative correlations imply that as x increases, y decreases.
- from scipy.stats import spearmanr
- sns.jointplot(x='Item\_Weight',y='Item\_MRP',data=Big\_Mart, kind='hex',stat\_func=spearmanr,color='purple')

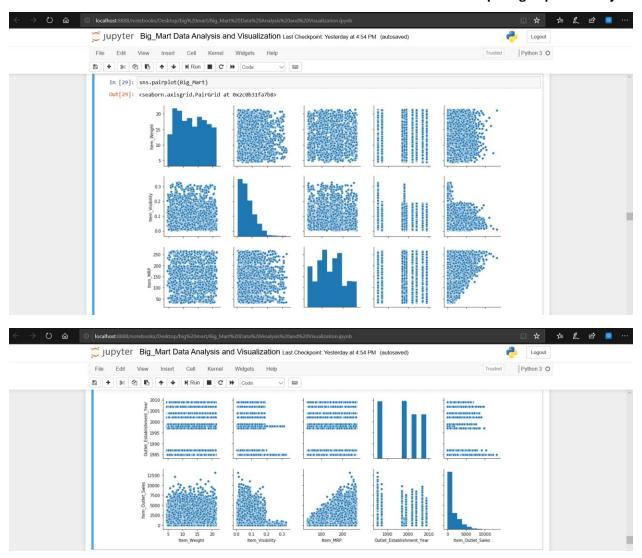


# **CBD-3396 Cloud Computing Capstone Project**





### **CBD-3396 Cloud Computing Capstone Project**



- 3. Difficulties Encountered in Reporting Week
  - We found difficult to use spearmanr function with joint plot
  - from scipy.stats import spearmanr the scipy library was used to import the spearmanr function
- 4. Tasks to Be Completed in Next Week

To use pair plot and count plot with features such as outlet\_size and outlet\_type to visualize the trends in market.



