Documentation of BigMart Dashboard

* Imported data from a CSV file to Excel.
* Cleaned the data in Excel using the following steps

1. Identified the missing values using filter and replaced missing value with average in item\_weight column
2. Identified the missing values using filter and replaced missing value with Null in Outlet\_size column
3. Replaced LF with Low Fat and Reg with Regular in item\_fat\_content column
4. Changed data type of Outlet\_Establishment\_Year to Date type.
5. Tried to remove duplicates but there were no duplicates.
6. Tried to Handle outlier but there was no outlier
7. Standardized text data by converting it to lowercase or uppercase for consistency.
8. Ensured numeric columns have consistent formatting (e.g., currency symbols, decimal places)
9. Text Data Cleaning.
10. Finally reviewed the data set and saved as excel file.

* Imported the data from Excel file to Power Bi then built Visualisation using the cleaned dataset. And below are the charts and the columns used for that chat.

1. Total Sales Over Time:

● Created a line chart to show the trend in total sales over the years. Used the

"Outlet\_Establishment\_Year" and "Item\_Outlet\_Sales" columns for this.

1. Sales Distribution by Product Type:

● Created a bar chart to display the distribution of sales across

different product types. Used the "Item\_Type" and "Item\_Outlet\_Sales"

1. Average Sales by Outlet Type:

● Used a bar chart to show the average sales for each outlet type. This can be

achieved by grouping data based on the "Outlet\_Type" column and calculating the mean of "Item\_Outlet\_Sales."

1. Product MRP vs. Sales:

● Created a scatter plot to visualize the relationship between product

Maximum Retail Price (MRP) and sales. Used the "Item\_MRP"

and "Item\_Outlet\_Sales" columns.

1. Outlet Size Distribution:

● Created a pie chart to represent the distribution of outlet sizes. Utilized the

"Outlet\_Size" column for this visualization.

1. Geographical Sales Distribution:

● Created a map chart or a bar chart to visualize sales distribution based on the

"Outlet\_Location\_Type."

1. Fat Content vs. Sales:

● Created a bar chart to explore how different levels of fat content in products

correlate with sales. Used the "Item\_Fat\_Content" and "Item\_Outlet\_Sales"

1. Item Visibility Impact on Sales:

● Investigated the impact of item visibility on sales by creating a scatter plot or line chart. Used the "Item\_Visibility" and "Item\_Outlet\_Sales" columns.

1. Outlet Type Breakdown:

● Created a pie chart or a bar chart to represent the distribution of outlet types using the "Outlet\_Type" column.

1. Outlet Size vs. Sales:

● Explored how outlet size influences sales by creating a bar chart or scatter plot using the "Outlet\_Size" and "Item\_Outlet\_Sales" columns.