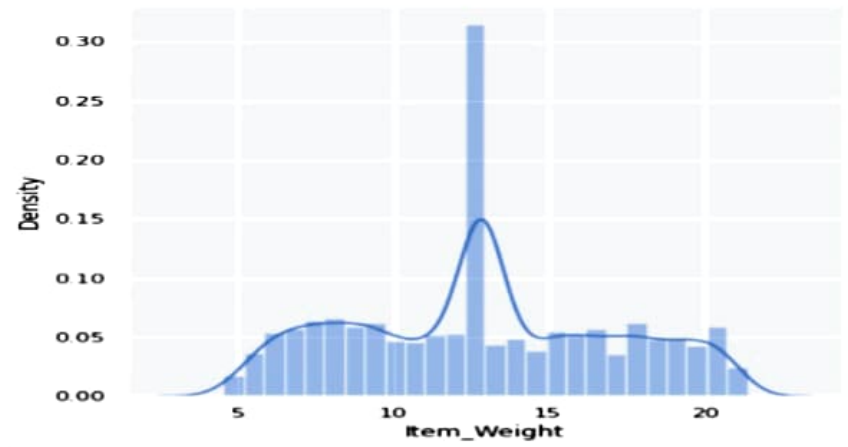## 8.1.2 OUTPUT

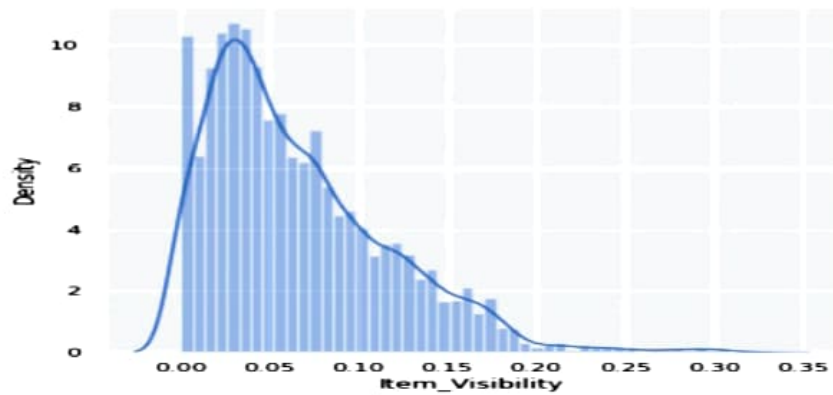**Figure 1:Item Weight Plot**

OUTPUT:

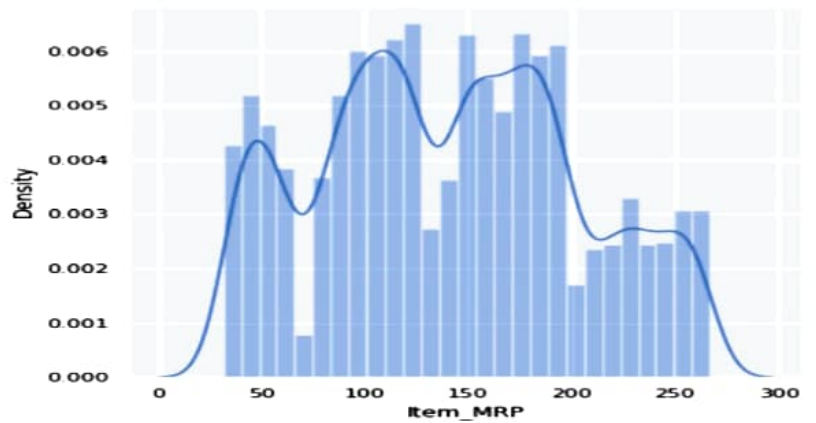**Figure 2:Item Visibility Plot**
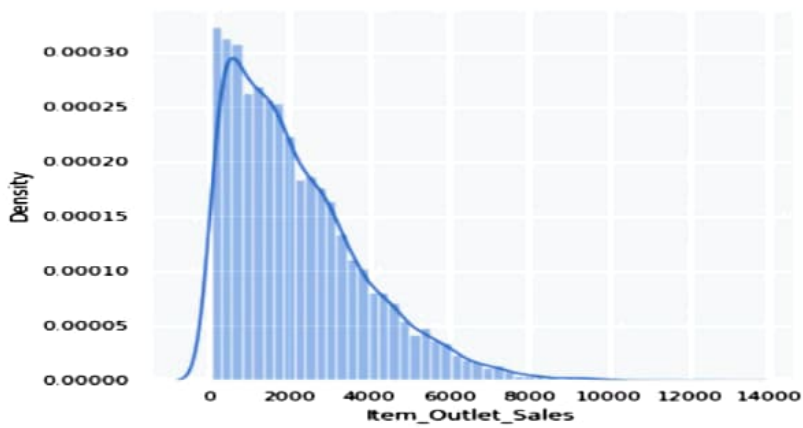
OUTPUT:

Figure 3:Item MRP Plot

OUTPUT :

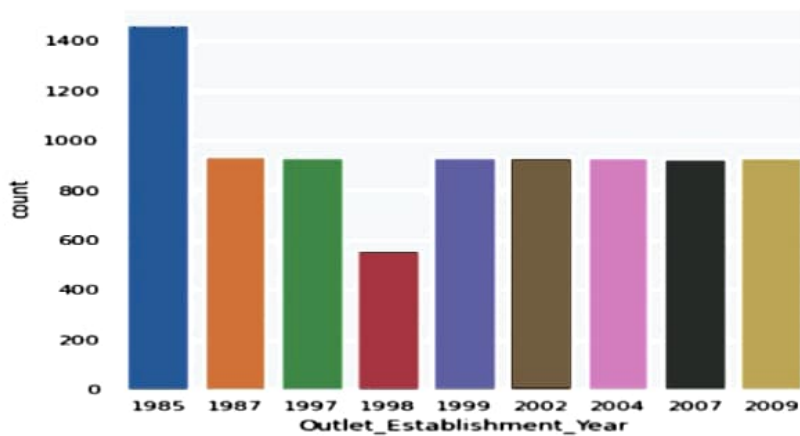Figure 4:Item Outlet Sales Plot
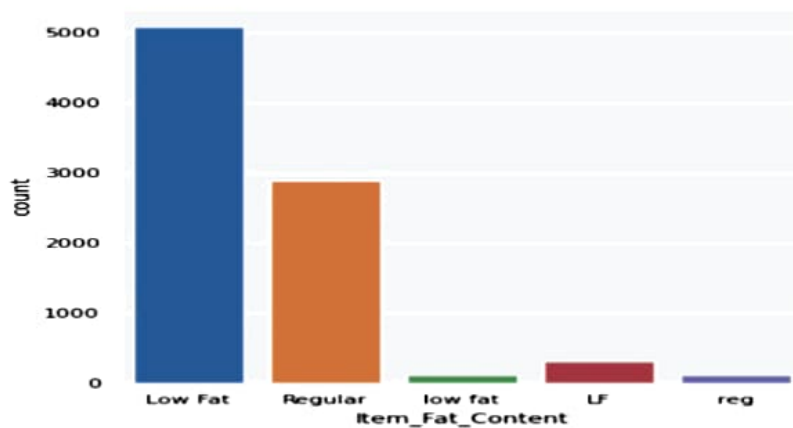
OUTPUT:

Figure 5:Outlet Establishment Year

OUTPUT:

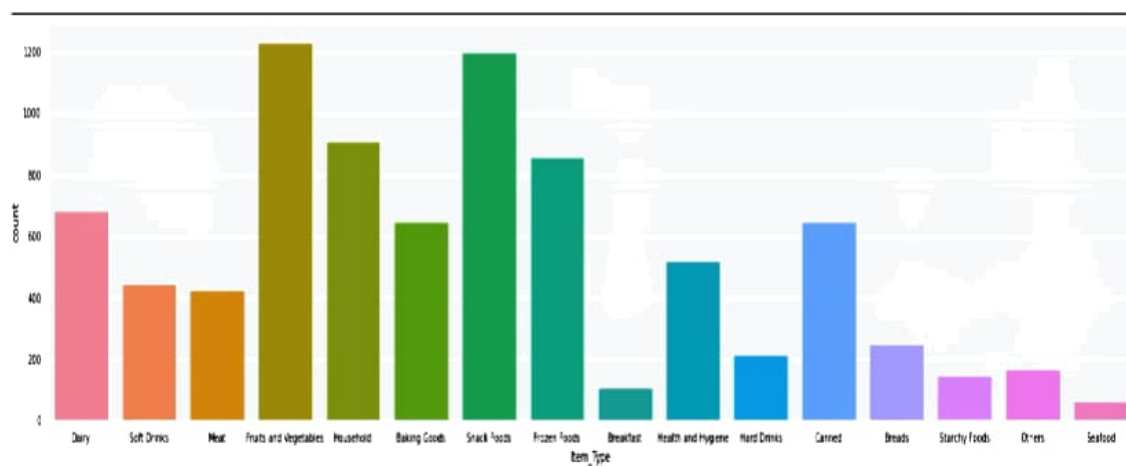**Figure 6:Item Fat Content Plot**

OUTPUT:

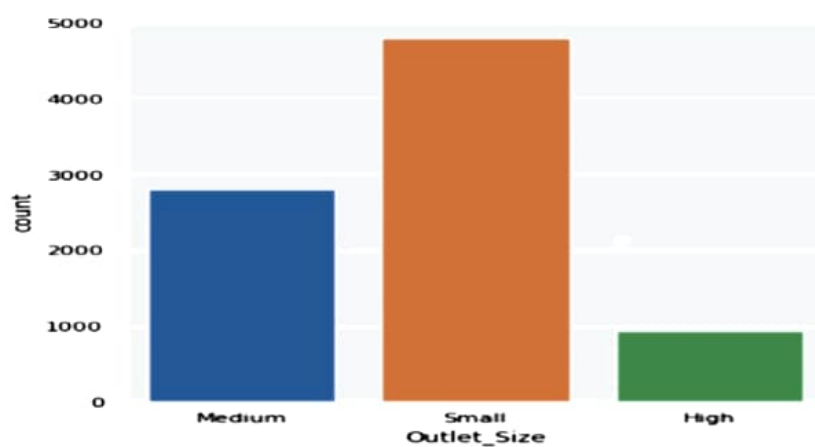**Figure 7:Item Type Plot**

OUTPUT:

Figure 8: Item Outlet Size Plot

	Item_Identifier	Item_weight	Item_Fat_Content	Item_Visibility	Item_Type	Item_MRP	Outlet_Identifier	Outlet_Establishment_Year	Outlet_Size	Outlet_Location_Type	Outlet_Type
0	FDW58	20.750000	Low Fat	0.007565	Snack Foods	107.8622	OUT049	1999	Medium	Tier 1	Supermarket Type1
1	FDW14	8.300000	Regular	0.038428	Dairy	87.3198	OUT017	2007	Small	Tier 2	Supermarket Type1
2	NCN55	14.600000	Low Fat	0.099575	Others	241.7538	OUT010	1998	Small	Tier 3	Grocery Store
3	FDQ58	7.315000	Low Fat	0.015388	Snack Foods	155.0340	OUT017	2007	Small	Tier 2	Supermarket Type1
4	FDY38	12.695633	Regular	0.118599	Dairy	234.2300	OUT027	1985	Medium	Tier 3	Supermarket Type3
...											
5676	FDB58	10.500000	Regular	0.013496	Snack Foods	141.3154	OUT046	1997	Small	Tier 1	Supermarket Type1
5677	FDD47	7.600000	Regular	0.142991	Starchy Foods	169.1448	OUT018	2009	Medium	Tier 3	Supermarket Type2
5678	NCO17	10.000000	Low Fat	0.073529	Health and Hygiene	118.7440	OUT045	2002	Small	Tier 2	Supermarket Type1
5679	FDJ26	15.300000	Regular	0.000000	Canned	214.6218	OUT017	2007	Small	Tier 2	Supermarket Type1
5680	FDU37	9.500000	Regular	0.104720	Canned	79.7960	OUT045	2002	Small	Tier 2	Supermarket Type1

5681 rows × 12 columns

Figure 9:UnLabelled data

Output: Labeled Data with Predicted Output (using XGBoost Regressor)

	Item_Identifier	Item_weight	Item_Fat_Content	Item_Visibility	Item_Type	Item_MRP	Outlet_Identifier	Outlet_Establishment_Year	Outlet_Size	Outlet_Location_Type	Outlet_Type	Predicted_Sales
0	FDW58	20.750000	Low Fat	0.007565	Snack Foods	107.8622	OUT049	1999	Medium	Tier 1	Supermarket Type1	1675.907037
1	FDW14	8.300000	Regular	0.038428	Dairy	87.3198	OUT017	2007	Small	Tier 2	Supermarket Type1	1378.966919
2	NCN55	14.600000	Low Fat	0.099575	Others	241.7538	OUT010	1998	Small	Tier 3	Grocery Store	503.203247
3	FDQ58	7.315000	Low Fat	0.015388	Snack Foods	155.0340	OUT017	2007	Small	Tier 2	Supermarket Type1	2522.833252
4	FDY38	12.695633	Regular	0.118599	Dairy	234.2300	OUT027	1985	Medium	Tier 3	Supermarket Type3	5674.394531
...												
5676	FDB58	10.500000	Regular	0.013496	Snack Foods	141.3154	OUT046	1997	Small	Tier 1	Supermarket Type1	2207.298828
5677	FDD47	7.600000	Regular	0.142991	Starchy Foods	169.1448	OUT018	2009	Medium	Tier 3	Supermarket Type2	2458.035645
5678	NCO17	10.000000	Low Fat	0.073529	Health and Hygiene	118.7440	OUT045	2002	Small	Tier 2	Supermarket Type1	1846.476440
5679	FDJ26	15.300000	Regular	0.000000	Canned	214.6218	OUT017	2007	Small	Tier 2	Supermarket Type1	3760.041260
5680	FDU37	9.500000	Regular	0.104720	Canned	79.7960	OUT045	2002	Small	Tier 2	Supermarket Type1	1262.487915

5681 rows × 12 columns

Figure 10:Labelled data