



Data Collection and Preprocessing Phase

Date	10 July 2024
Team ID	739758
Project Title	Walmart Sales Analysis For Retail Industry With Machine Learning
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

Dataset variables will be statistically analyzed to identify patterns and outliers, with Python employed for preprocessing tasks like normalization and feature engineering. Data cleaning will address missing values and outliers, ensuring quality for subsequent analysis and modeling, and forming a strong foundation for insights and predictions.





Section	Descr	ipti	on															
	<u>Dimension:</u> 421570 rows × 17 columns																	
	Descri	Store I				SHoliday	Temperature Fi	uel_Price	MarkDown1	MarkDown2	MarkDown3	MarkDown4	MarkDown5	CPI	Unemployment	_merge	Туре	Size
	0		1 2010-	2-05	24924.50	False	42.31	2.572	NaN	NaN	NaN	NaN	NaN	211.096358	8.106	both		151315
	1		1 2010-		46039.49	True	38.51	2.548	NaN	NaN	NaN	NaN		211.242170	8.106	both		151315
	2		1 2010-		41595.55 19403.54	False False	39.93 46.63	2.514	NaN NaN	NaN NaN	NaN NaN	NaN NaN		211.289143 211.319643	8.106 8.106	both		151315 151315
	4		1 2010-		21827.90	False	46.50	2.625	NaN	NaN	NaN	NaN		211.350143	8.106	both		151315
	42 44																	
	421565		98 2012-	9-28	508.37	False	64.88	3.997	4556.61	20.64	1.50	1601.01	3288.25	192.013558	8.684	both		118221
	421566	45	98 2012-	0-05	628.10	False	64.89	3.985	5046.74	NaN	18.82	2253.43	2340.01	192.170412	8.667	both		118221
	421567		98 2012-		1061.02	False	54.47	4.000	1956.28	NaN	7.89	599.32		192.327265	8.667	both		118221
	421568 421569	45 45	98 2012- 98 2012-		760.01 1076.80	False False	58.85	3.969	2004.02 4018.91	NaN 58.08	3.18	437.73		192.330854 192.308899	8.667 8.667	both		118221
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Data																		
Overview																		
Univariate																		
Analysis																		
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