

```
In [1]: # importing necessary library
import numpy as np
import pandas as pd
import pymongo
import sklearn
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
import plotly.express as px
import pickle
from scipy import stats
```

```
In [2]: import warnings
warnings.filterwarnings('ignore')
```

```
In [3]: csv_file_path = 'Walmart.csv'
json_file_path = 'Walmart.json'
password='satish321'
connection_string=f'mongodb+srv://satishkandel198:{password}@cluster0.odylp4l.mongodb.net/?retryWrites=true&w=m:
db_name='WALMART'
my_collection='enriched_sales_data'
```

```
In [4]: # create a function that returns the database connection
def get_connection(connection_string):
    try:
        client=pymongo.MongoClient(connection_string)
        return client
    except Exception as e:
        return e
```

```
In [5]: # importing data from mongo db database into the pandas dataframe
client=get_connection(connection_string)
print(client)

mydb=client[db_name]

collection=mydb[my_collection]
curser=collection.find()

# print(type(curser))
df=pd.DataFrame(curser)
```

MongoClient(host=['ac-nylyb7u-shard-00-00.odylp4l.mongodb.net:27017', 'ac-nylyb7u-shard-00-01.odylp4l.mongodb.net:27017', 'ac-nylyb7u-shard-00-02.odylp4l.mongodb.net:27017'], document_class=dict, tz_aware=False, connect=True, retrywrites=True, w='majority', authsource='admin', replicaset='atlas-vd77c7-shard-0', tls=True)

```
In [6]: df.drop('_id',axis=1,inplace=True)
```

```
In [7]: df['Year'] = df['Year'].astype(int)
df['Weekly_Sales'] = df['Weekly_Sales'].astype(float)
df['Holiday_Flag'] = df['Holiday_Flag'].astype(int)
df['Temperature'] = df['Temperature'].astype(float)
df['Fuel_Price'] = df['Fuel_Price'].astype(float)
df['CPI'] = df['Fuel_Price'].astype(float)
df['Unemployment'] = df['Unemployment'].astype(float)
df['Store'] = df['Store'].astype(int)
df['Year'] = df['Year'].astype(int)
```

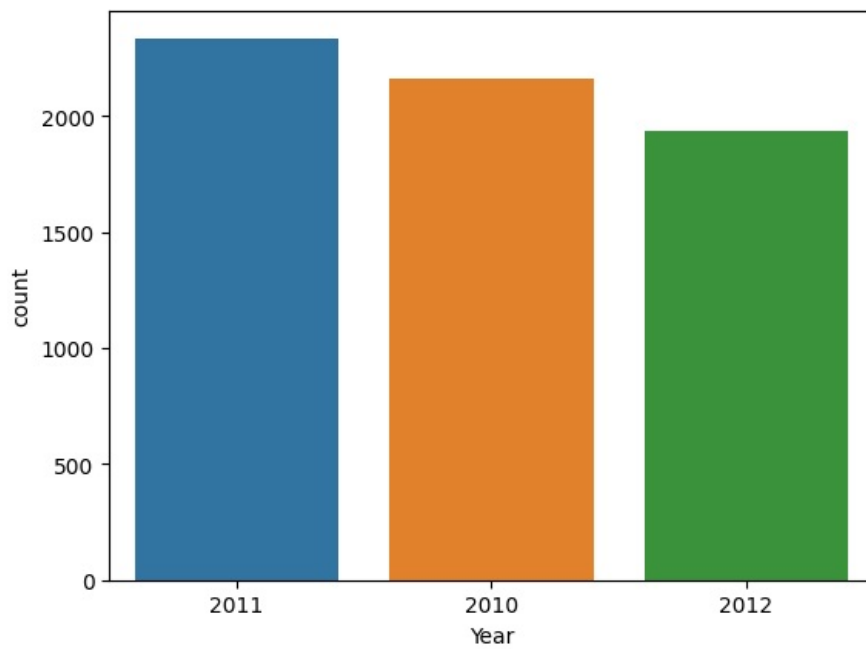
```
In [8]: df.head()
```

```
Out[8]:
```

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	42.31	2.572	2.572	8.106	Thursday	February	2010
1	1	1641957.44	1	38.51	2.548	2.548	8.106	Thursday	February	2010
2	1	1611968.17	0	39.93	2.514	2.514	8.106	Thursday	February	2010
3	1	1409727.59	0	46.63	2.561	2.561	8.106	Thursday	February	2010
4	1	1554806.68	0	46.50	2.625	2.625	8.106	Thursday	March	2010

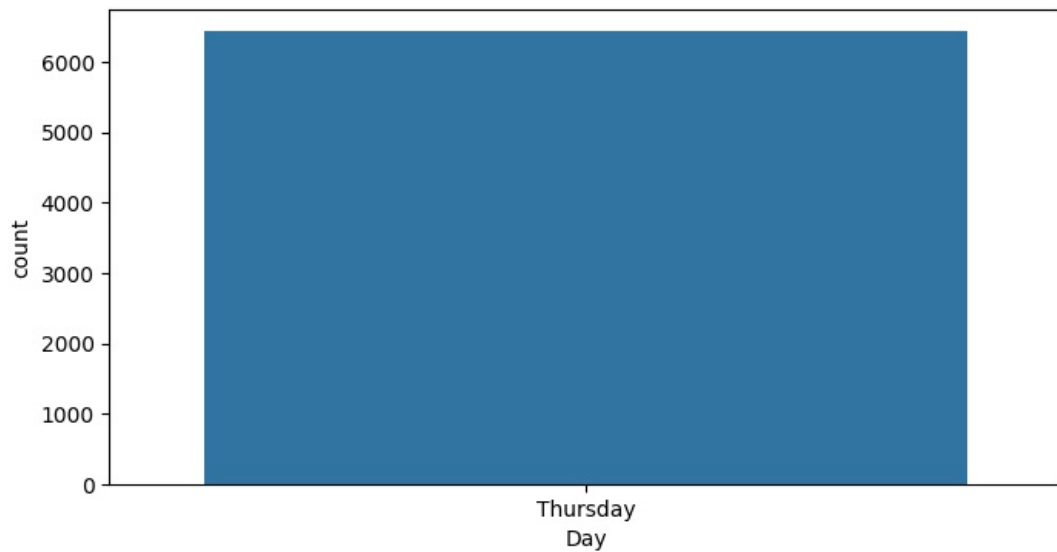
```
In [9]: #lets find the number of rows in each of the year and arrange them in the descending order
# Using the countplot function, to create a bar plot that shows the counts of unique values in the 'Year' column
sns.countplot(x='Year', data=df,order=df['Year'].value_counts().index)
```

```
Out[9]: <Axes: xlabel='Year', ylabel='count'>
```



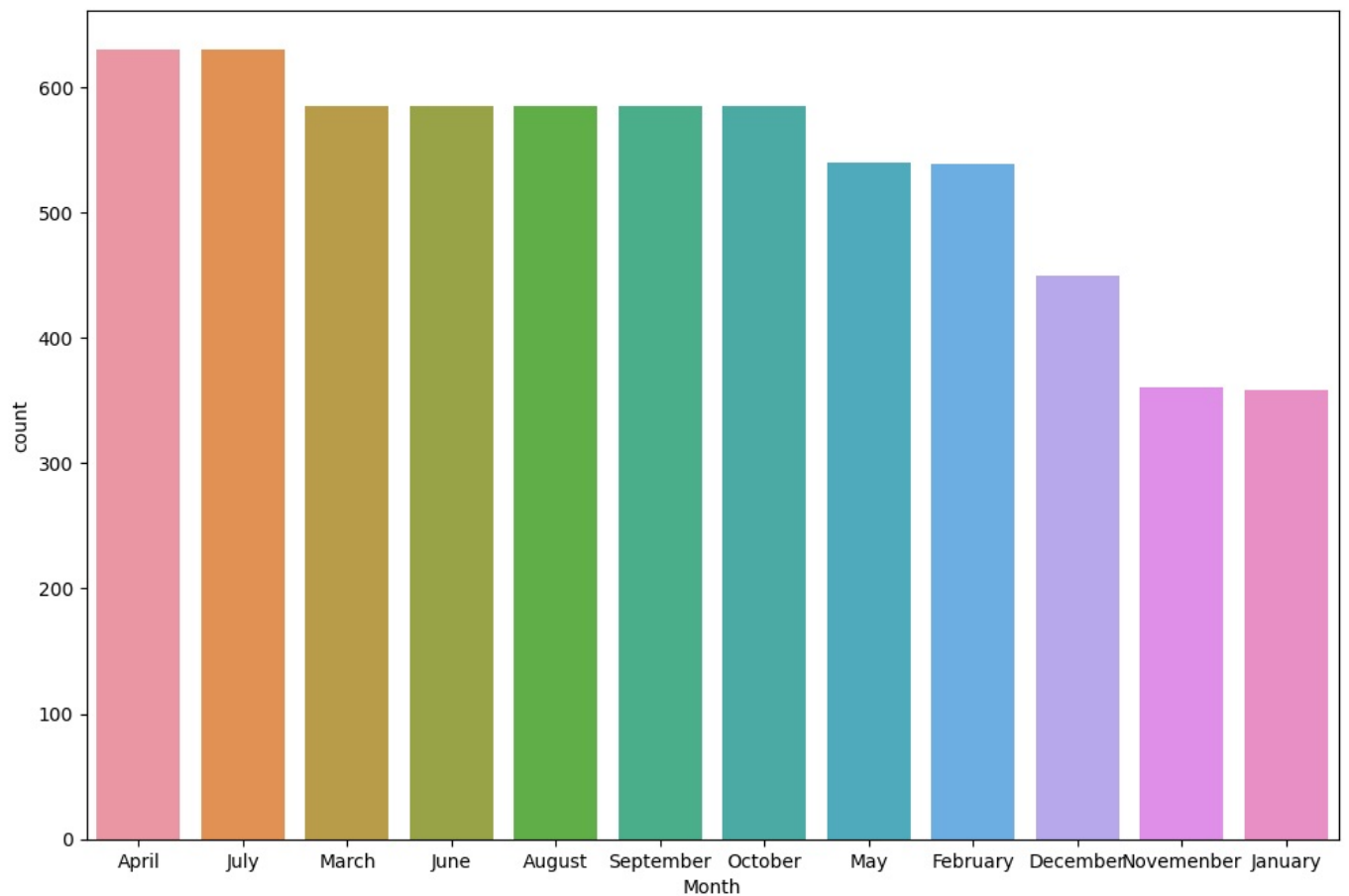
```
In [10]: plt.figure(figsize=(8,4))
sns.countplot(x='Day', data=df,order=df['Day'].value_counts().index)
```

```
Out[10]: <Axes: xlabel='Day', ylabel='count'>
```



```
In [11]: '''
a bar plot that visualizes the distribution of months in the 'Month' column of the DataFrame,
ordered by the frequency of each month in descending order. This type of plot is useful for understanding
the distribution of data across different months in a categorical variable.
'''
plt.figure(figsize=(12,8))
sns.countplot(x='Month', data=df,order=df['Month'].value_counts().index)
```

```
Out[11]: <Axes: xlabel='Month', ylabel='count'>
```



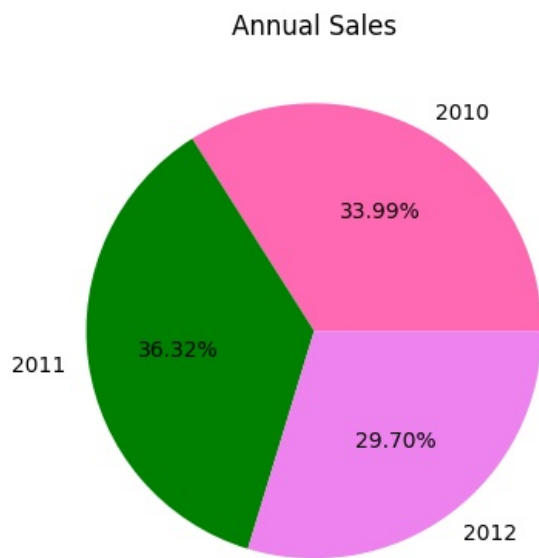
```
In [12]: # finding sum of the weekly sales for each of the year
df.groupby('Year')['Weekly_Sales'].sum()
```

```
Out[12]: Year
2010    2.288886e+09
2011    2.445741e+09
2012    2.000133e+09
Name: Weekly_Sales, dtype: float64
```

2011 has highest total weekly sales based on data. That's because the database has more number of records of 2011.

```
In [13]: '''
This code creates a pie chart representing the distribution of annual sales for each unique year in the 'Year' column
with percentages displayed on each wedge and custom colors. The title of the pie chart is set to 'Annual Sales'
'''
plt.pie(df.groupby('Year')['Weekly_Sales'].sum(), labels=df['Year'].unique(), normalize=True, autopct='%1.2f%%', colors=
plt.title('Annual Sales')
```

```
Out[13]: Text(0.5, 1.0, 'Annual Sales')
```



```
In [14]: df2 = df.groupby('Day')['Weekly_Sales'].sum().reset_index()
df2.head(10)
```

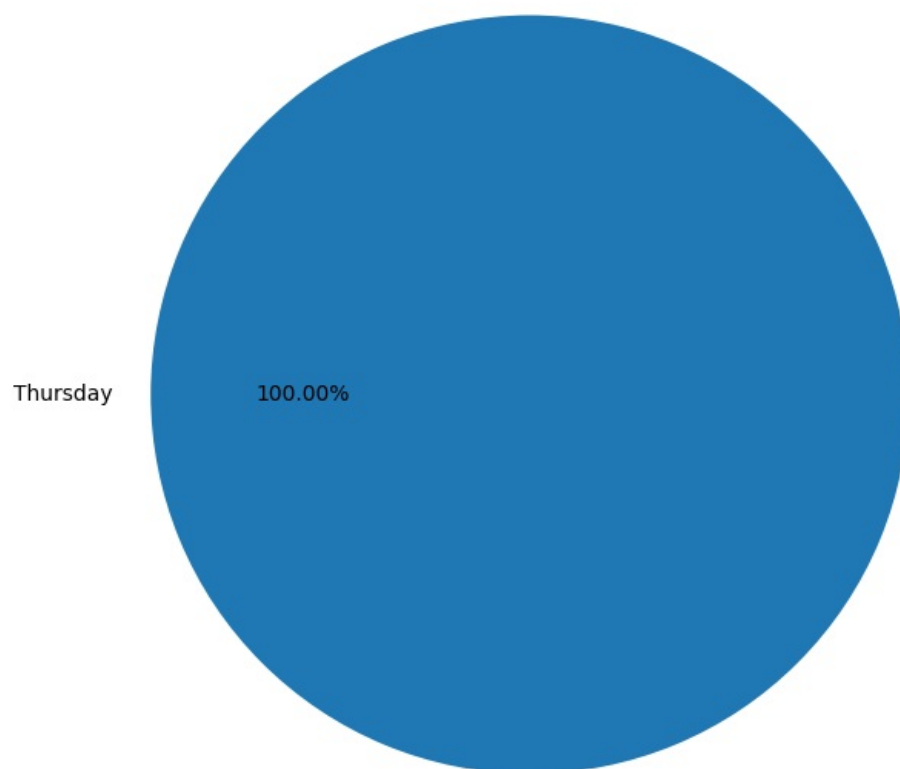
```
Out[14]:
```

	Day	Weekly_Sales
0	Thursday	6.734760e+09

Aggregating the data based on a specific column 'Day' and calculating some summary statistic (in this case, the sum of 'Weekly_Sales') for each group.

```
In [15]: plt.figure(figsize=(10,8))
plt.pie(df2['Weekly_Sales'], labels= df2['Day'], autopct='%1.2f%%', normalize=True)
```

```
Out[15]: ([<matplotlib.patches.Wedge at 0x2c04107b410>],
 [Text(-1.1, 1.3471114790620887e-16, 'Thursday')],
 [Text(-0.6, 7.347880794884119e-17, '100.00%')])
```



Pie chart to visualize the proportion of total sales for each unique day in the 'Day' column of the DataFrame df2. The percentages are displayed on each wedge with two decimal places, and the values are normalized to represent proportions.

Thursday had the highest total sales compared to the other days of the week.

Insight:

Although the tuesday seems to be the day which has the highest sales, this is not the true instight because the weekly sales is only recorder in tuesday

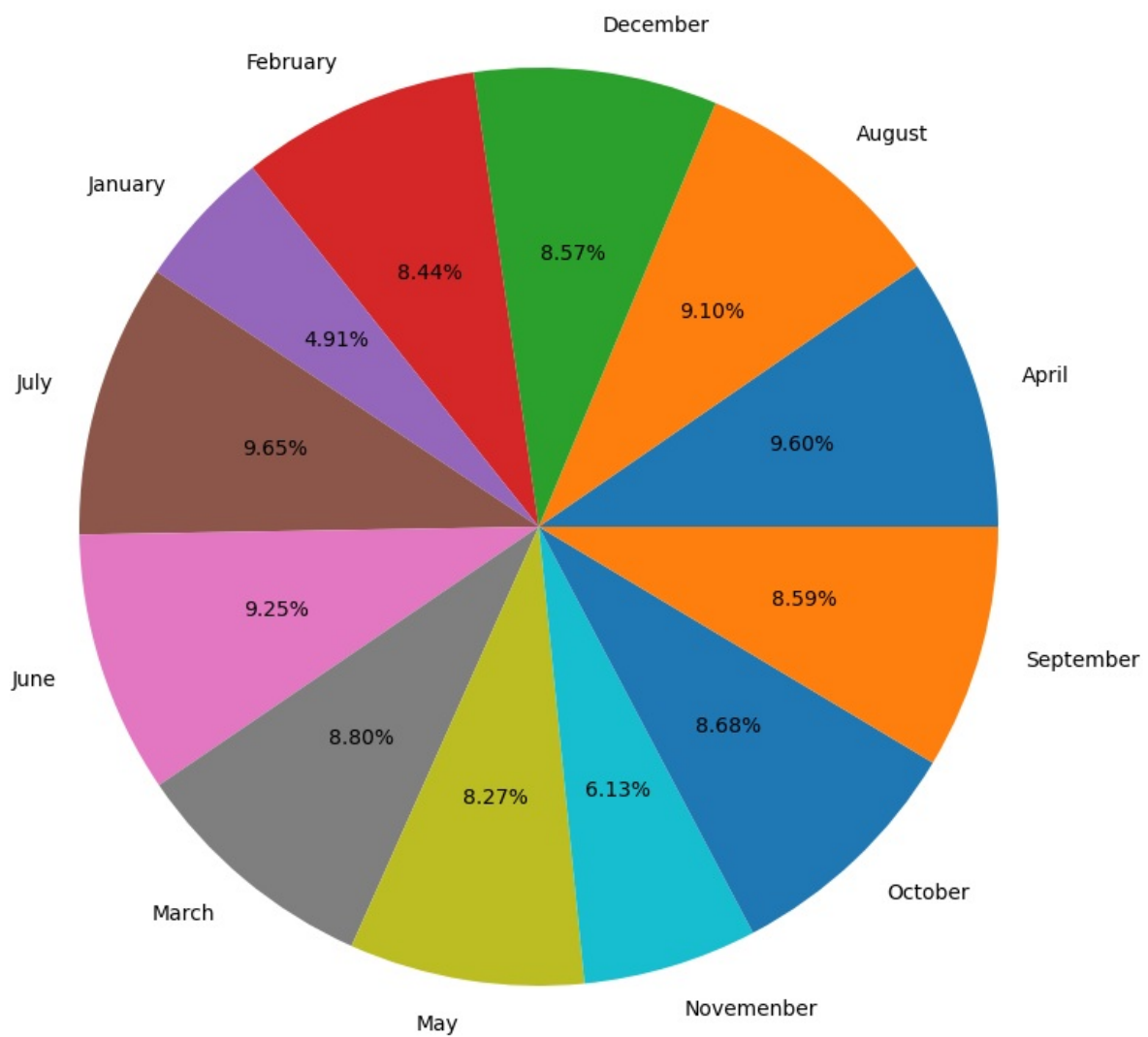
```
In [16]: df3 = df.groupby('Month')['Weekly_Sales'].sum().reset_index()
df3.head()
```

Out[16]:	Month	Weekly_Sales
0	April	6.468598e+08
1	August	6.130902e+08
2	December	5.768386e+08
3	February	5.681699e+08
4	January	3.306979e+08

This cell represent total weekly sales grouping by the 'Month' column.

```
In [17]: plt.figure(figsize=(10,10))
plt.pie(df3['Weekly_Sales'],labels=df3['Month'],normalize=True,autopct='%1.2f%%')
```

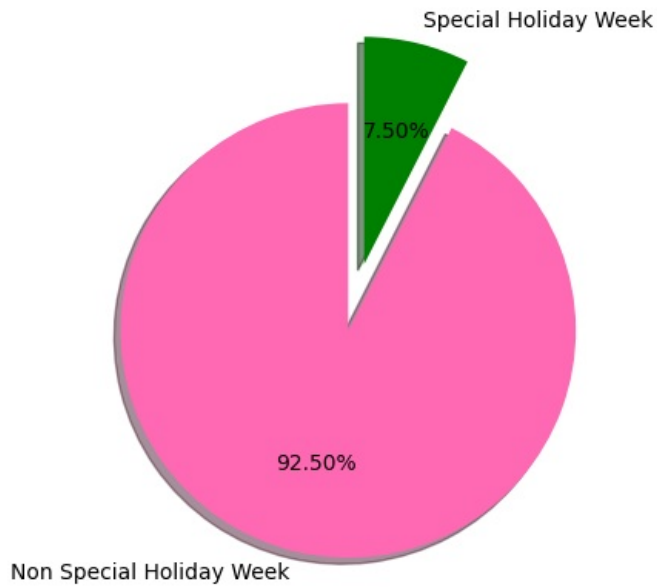
```
Out[17]: ([<matplotlib.patches.Wedge at 0x2c041482dd0>,
<matplotlib.patches.Wedge at 0x2c041484a90>,
<matplotlib.patches.Wedge at 0x2c041486ed0>,
<matplotlib.patches.Wedge at 0x2c0414864d0>,
<matplotlib.patches.Wedge at 0x2c0414561d0>,
<matplotlib.patches.Wedge at 0x2c0414954d0>,
<matplotlib.patches.Wedge at 0x2c041497410>,
<matplotlib.patches.Wedge at 0x2c04149d810>,
<matplotlib.patches.Wedge at 0x2c04149f550>,
<matplotlib.patches.Wedge at 0x2c041495050>,
<matplotlib.patches.Wedge at 0x2c0414a3850>,
<matplotlib.patches.Wedge at 0x2c0414a9d10>],
[Text(1.0503018019451353, 0.3269038464607015, 'April'),
Text(0.692799612204105, 0.8544171682087397, 'August'),
Text(0.13850358044067654, 1.0912455077594194, 'December'),
Text(-0.4363200150178702, 1.0097647471043965, 'February'),
Text(-0.8096190552244932, 0.7446589725622054, 'January'),
Text(-1.0552691790490203, 0.31049470164433907, 'July'),
Text(-1.048405159776804, -0.33293636171703156, 'June'),
Text(-0.7055587754773202, -0.8439116152459005, 'March'),
Text(-0.17518468221722183, -1.0859605550462923, 'May'),
Text(0.3172933815126852, -1.0532449430442312, 'Novemenber'),
Text(0.7562608341951716, -0.7987925579663491, 'October'),
Text(1.060154503295749, -0.2933810306440141, 'September')],
[Text(0.5728918919700737, 0.1783111889785644, '9.60%'),
Text(0.3778906975658754, 0.46604572811385797, '9.10%'),
Text(0.07554740751309628, 0.5952248224142287, '8.57%'),
Text(-0.2379927354642928, 0.5507807711478525, '8.44%'),
Text(-0.4416103937588144, 0.4061776213975665, '4.91%'),
Text(-0.5756013703903746, 0.16936074635145767, '9.65%'),
Text(-0.5718573598782567, -0.18160165184565358, '9.25%'),
Text(-0.3848502411694473, -0.46031542649776386, '8.80%'),
Text(-0.09555528120939372, -0.5923421209343411, '8.27%'),
Text(0.17306911718873735, -0.5744972416604897, '6.13%'),
Text(0.4125059095610027, -0.43570503161800855, '8.68%'),
Text(0.5782660927067721, -0.16002601671491679, '8.59%')])]
```



April had the highest total sales compared to the other months of the year.

```
In [18]: df4 = df.groupby('Holiday_Flag')['Weekly_Sales'].sum().reset_index()
plt.pie(df4['Weekly_Sales'], labels= ['Non Special Holiday Week', 'Special Holiday Week'], normalize=True, autopct=
```

```
Out[18]: ([<matplotlib.patches.Wedge at 0x2c0414d4c90>,
<matplotlib.patches.Wedge at 0x2c0414e9f50>],
[Text(-0.25688599722092664, -1.0695838370281268, 'Non Special Holiday Week'),
Text(0.32694587837132966, 1.3612885045485397, 'Special Holiday Week')],
[Text(-0.14011963484777815, -0.5834093656517054, '92.50%'),
Text(0.21017949323871188, 0.8751140386383469, '7.50%')])
```



The code represent pie chart representing the distribution of total sales for special and non-special holiday weeks. The 'Special Holiday Week' wedge is exploded (moved outward) for emphasis, and the chart includes a shadow effect for better visualization.

```
In [19]: df.groupby('Store')['Weekly_Sales'].count().reset_index()
```


Out[19]:

	Store	Weekly_Sales
0	1	143
1	2	143
2	3	143
3	4	143
4	5	143
5	6	143
6	7	142
7	8	143
8	9	143
9	10	143
10	11	143
11	12	143
12	13	143
13	14	143
14	15	143
15	16	143
16	17	142
17	18	143
18	19	143
19	20	143
20	21	143
21	22	143
22	23	143
23	24	143
24	25	143
25	26	142
26	27	143
27	28	143
28	29	143
29	30	143
30	31	143
31	32	143
32	33	143
33	34	143
34	35	143
35	36	143
36	37	143
37	38	143
38	39	143
39	40	143
40	41	143
41	42	143
42	43	143
43	44	143
44	45	143

In [20]:

```
#aggregate sales data based on the 'Store' column, calculating the total weekly sales for each unique store.  
df.groupby('Store')['Weekly_Sales'].sum().reset_index()
```

Out[20]:

	Store	Weekly_Sales
0	1	2.224028e+08
1	2	2.753824e+08
2	3	5.758674e+07
3	4	2.995440e+08
4	5	4.547569e+07
5	6	2.237561e+08
6	7	8.104025e+07
7	8	1.299512e+08
8	9	7.778922e+07
9	10	2.716177e+08
10	11	1.939628e+08
11	12	1.442872e+08
12	13	2.865177e+08
13	14	2.889999e+08
14	15	8.913368e+07
15	16	7.425243e+07
16	17	1.266991e+08
17	18	1.551147e+08
18	19	2.066349e+08
19	20	3.013978e+08
20	21	1.081179e+08
21	22	1.470756e+08
22	23	1.987506e+08
23	24	1.940160e+08
24	25	1.010612e+08
25	26	1.425989e+08
26	27	2.538559e+08
27	28	1.892637e+08
28	29	7.714155e+07
29	30	6.271689e+07
30	31	1.996139e+08
31	32	1.668192e+08
32	33	3.716022e+07
33	34	1.382498e+08
34	35	1.315207e+08
35	36	5.341221e+07
36	37	7.420274e+07
37	38	5.515963e+07
38	39	2.074455e+08
39	40	1.378703e+08
40	41	1.813419e+08
41	42	7.956575e+07
42	43	9.056544e+07
43	44	4.329309e+07
44	45	1.123953e+08

```
In [21]: # maximum total weekly sales among all the stores
df.groupby('Store')['Weekly_Sales'].sum().max()
```

Out[21]: 301397792.46

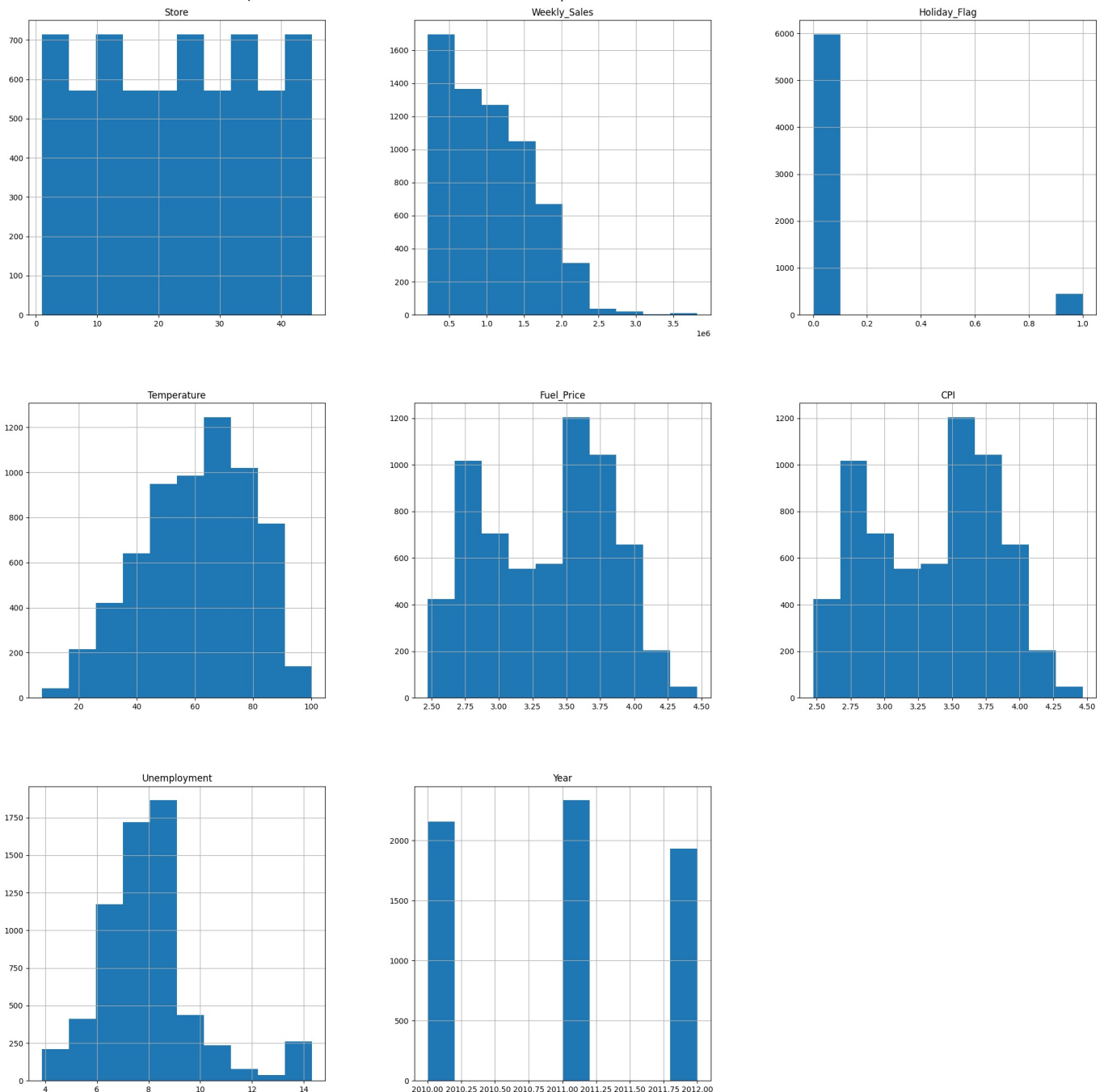
Observation:

- 2011 has recorded highest number of sales then followed by 2010 and 2012.
- More than 50% of sales happen on Thursday.
- Highest sales are recorded in April then followed by May, October, December ,September although their is little variance.
- Most sales comes on non special holiday week which makes sense people may not want to spend their special grocery shopping they would probably shop before to celebrate their special holiday. Like for Christmas week, people go for shopping on weeks before.
- All stores have equal number of sales yet store 20 has recorded highest sales.

Distributions

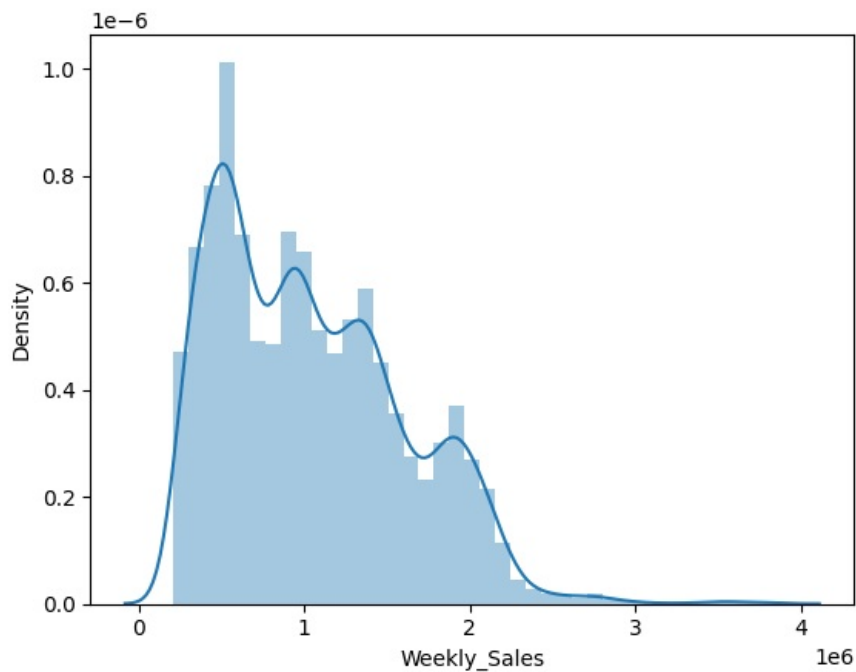
```
In [22]: # creating a histogram for each numerical column
fig = plt.figure(figsize=(25,25))
ax = fig.gca()
df.hist(ax=ax)
plt.tight_layout
```

```
Out[22]: <function matplotlib.pyplot.tight_layout(*, pad: 'float' = 1.08, h_pad: 'float | None' = None, w_pad: 'float | None' = None, rect: 'tuple[float, float, float, float] | None' = None) -> 'None'>
```



```
In [23]: # create a distribution plot (histogram) for the 'Weekly_Sales' column
sns.distplot(df['Weekly_Sales'],kde=True)
```

```
Out[23]: <Axes: xlabel='Weekly_Sales', ylabel='Density'>
```

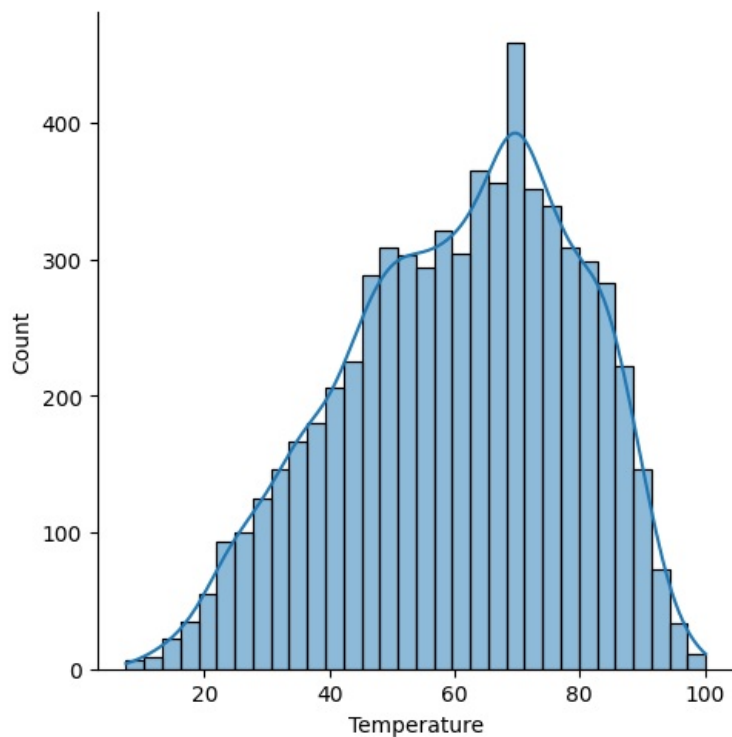


The resulting plot will show a histogram of the distribution of weekly sales values, and the KDE plot provides a smoothed curve that estimates the underlying probability density.

The figure shows the right skewed data for the 'weekly sales' column.

```
In [24]: sns.displot(df['Temperature'], kde=True)
```

```
Out[24]: <seaborn.axisgrid.FacetGrid at 0x2c0414f8810>
```



```
In [25]: plt.figure(figsize = (20,5))
fig = px.scatter(df, x="Weekly_Sales", y="Temperature", color="Store",
                title="Relation between Temperature and weeklysales within stores")

fig.show()
```

[more info](#)

Relation between Temperature and weeklysales within stores

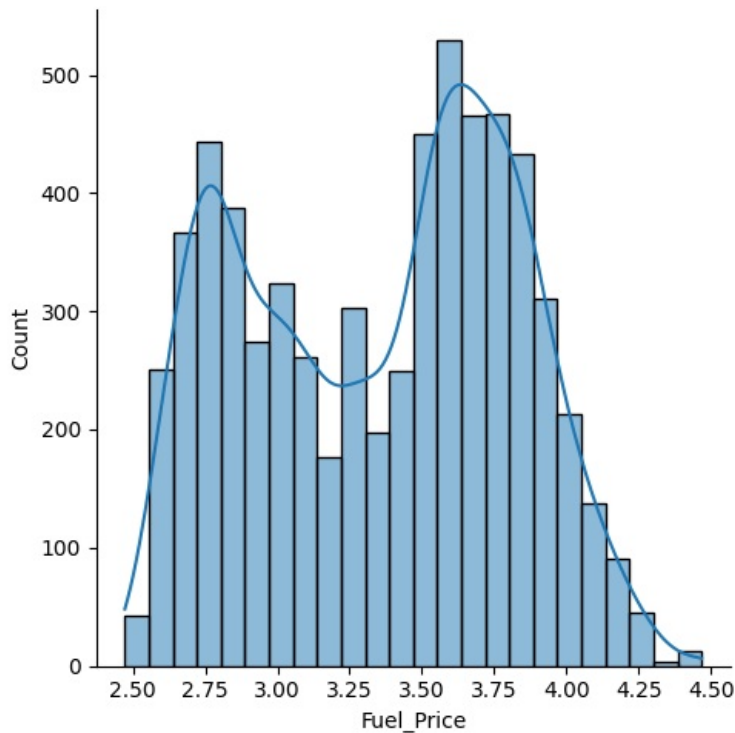


<Figure size 2000x500 with 0 Axes>

Weeklysals increase in range temp [40 , 80]

```
In [26]: sns.displot(df['Fuel_Price'],kde=True)
```

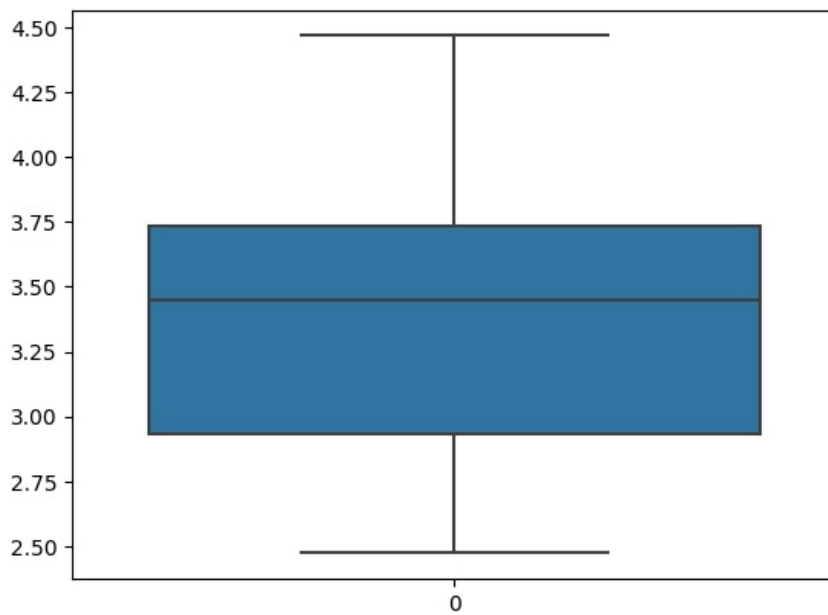
```
Out[26]: <seaborn.axisgrid.FacetGrid at 0x2c04a037d50>
```



This data distribution has two distinct peaks, it is often referred to as a "bimodal" distribution. In a bimodal distribution, there are two modes, or peaks, indicating that the data has two regions of relatively high frequency or probability.

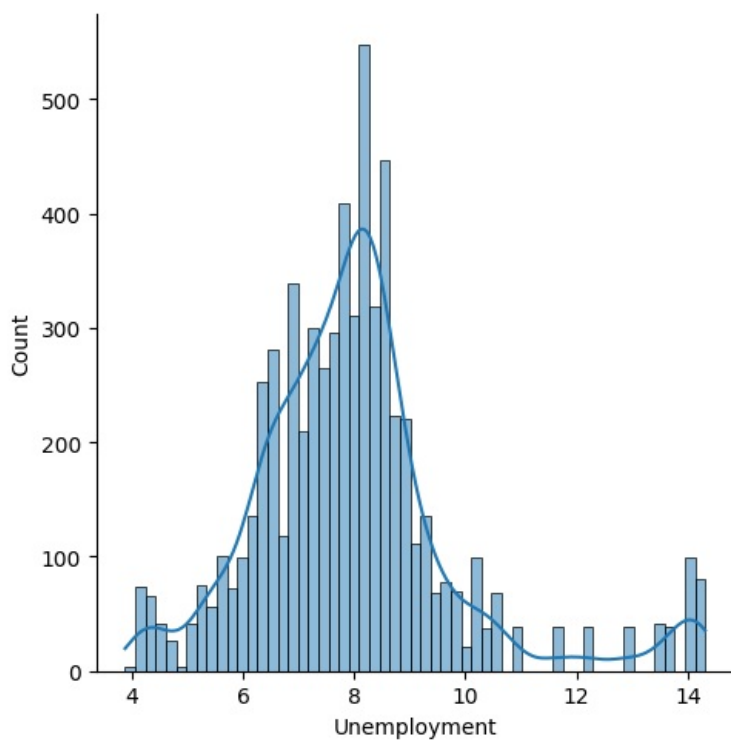
```
In [27]: sns.boxplot(df['Fuel_Price'])
```

```
Out[27]: <Axes: >
```



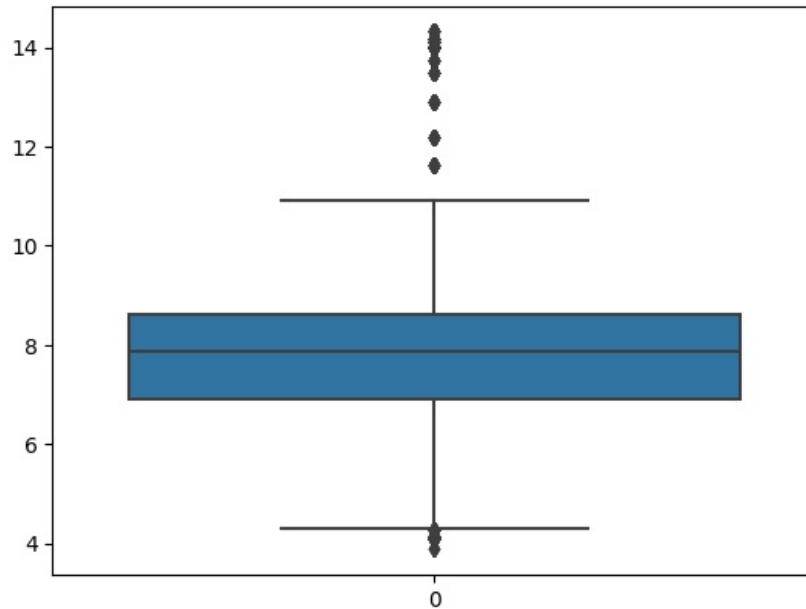
```
In [28]: sns.displot(df['Unemployment'], kde=True)
```

```
Out[28]: <seaborn.axisgrid.FacetGrid at 0x2c04a0f4c10>
```



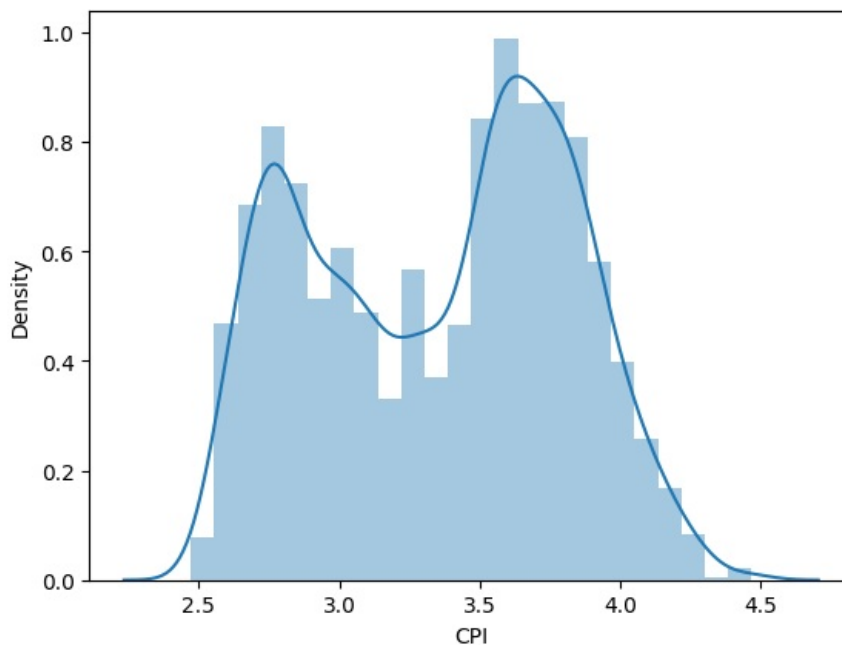
```
In [29]: sns.boxplot(df['Unemployment'])
```

```
Out[29]: <Axes: >
```



```
In [30]: sns.distplot(df['CPI'],kde=True)
```

```
Out[30]: <Axes: xlabel='CPI', ylabel='Density'>
```



The above diagram is bimodal with large CPI value at range(130-140) and at range(180-225).

Applying Power Transformation on numeric columns

```
In [31]: cols = ['Temperature', 'Fuel_Price', 'CPI', 'Unemployment']
df_numeric = df[cols]
from sklearn.preprocessing import PowerTransformer

pt = PowerTransformer(standardize=True)
df_transformed = pd.DataFrame(pt.fit_transform(df_numeric), columns=cols)

pd.DataFrame({'cols': cols, 'box-cox lambda': pt.lambdas_})
```

```
for col in cols:
    df[col] = df_transformed[col]

df.head()
```

```
Out[31]:
```

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	-1.020386	-1.683290	-1.683290	0.185783	Thursday	February	2010
1	1	1641957.44	1	-1.207177	-1.732439	-1.732439	0.185783	Thursday	February	2010
2	1	1611968.17	0	-1.137996	-1.801885	-1.801885	0.185783	Thursday	February	2010
3	1	1409727.59	0	-0.801827	-1.705830	-1.705830	0.185783	Thursday	February	2010
4	1	1554806.68	0	-0.808497	-1.574385	-1.574385	0.185783	Thursday	March	2010

The Box-Cox transformation, implemented through the PowerTransformer, is useful for handling skewness and making the distribution more normal

Data Preprocessing

- Removal of Outliers - Unemployment
- Encoding - categorical variable - Target Encoding

```
In [32]: df.shape
```

```
Out[32]: (6432, 10)
```

```
In [33]: Q1 = df['Unemployment'].quantile(0.25)
Q3 = df['Unemployment'].quantile(0.75)
IQR = Q3-Q1

df = df[df['Unemployment'] >= Q1-1.5*(IQR)]
df = df[df['Unemployment'] <= Q3+1.5*(IQR)]
df.shape
```

```
Out[33]: (5919, 10)
```

```
In [34]: Q1 = df['Temperature'].quantile(0.25)
Q3 = df['Temperature'].quantile(0.75)
IQR = Q3-Q1

df = df[df['Temperature'] >= Q1-1.5*(IQR)]

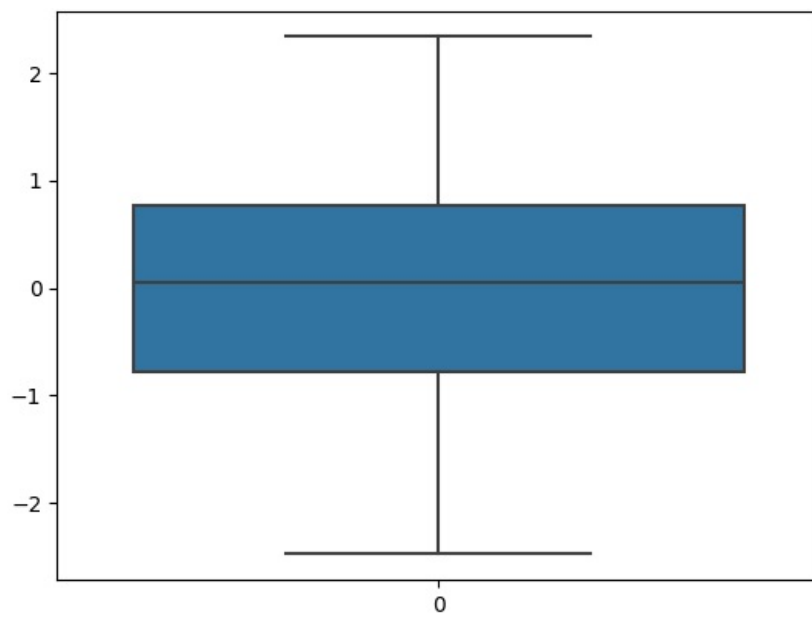
df = df[df['Temperature'] <= Q3+1.5*(IQR)]
df.shape
```

```
Out[34]: (5919, 10)
```

Box plot after removal of the outliers

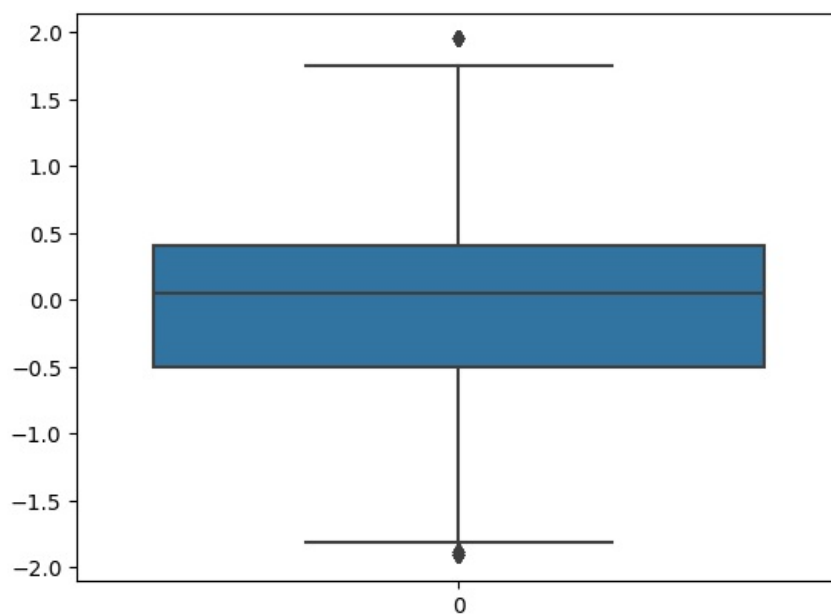
```
In [35]: sns.boxplot(df['Temperature'])
```

```
Out[35]: <Axes: >
```

```
In [36]: sns.boxplot(df['Unemployment'])
```

```
Out[36]: <Axes: >
```



Encoding

```
In [37]: # tranformation of distributions
          # how to find multi colinearity and use feature selection
```

Data Manipulation

- Encoding - using column transformer
- Scaling
- Splitting data

```
In [38]: # Target guided encoding of day ,month, year column - ranked as per the sales
tge= {'Sunday':5, 'Monday':3, 'Tuesday':0, 'Wednesday':4, 'Thursday':6, 'Friday':1, 'Saturday':2}
df['Day'] = df['Day'].map(tge)
df.head()
```

```
Out[38]:
```

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	-1.020386	-1.683290	-1.683290	0.185783	6	February	2010
1	1	1641957.44	1	-1.207177	-1.732439	-1.732439	0.185783	6	February	2010
2	1	1611968.17	0	-1.137996	-1.801885	-1.801885	0.185783	6	February	2010
3	1	1409727.59	0	-0.801827	-1.705830	-1.705830	0.185783	6	February	2010
4	1	1554806.68	0	-0.808497	-1.574385	-1.574385	0.185783	6	March	2010

```
In [39]: yr = {2010:1, 2011:2, 2012:0}
df['Year'] = df['Year'].map(yr)
df.head()
```

```
Out[39]:
```

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	-1.020386	-1.683290	-1.683290	0.185783	6	February	1
1	1	1641957.44	1	-1.207177	-1.732439	-1.732439	0.185783	6	February	1
2	1	1611968.17	0	-1.137996	-1.801885	-1.801885	0.185783	6	February	1
3	1	1409727.59	0	-0.801827	-1.705830	-1.705830	0.185783	6	February	1
4	1	1554806.68	0	-0.808497	-1.574385	-1.574385	0.185783	6	March	1

```
In [40]: mn = {'January':1, 'February':3, 'March':4, 'April':12, 'May':11, 'June':6, 'July':8, 'August':5, 'September':7, 'Octobe
df['Month'] = df['Month'].map(mn)
df.head()
```

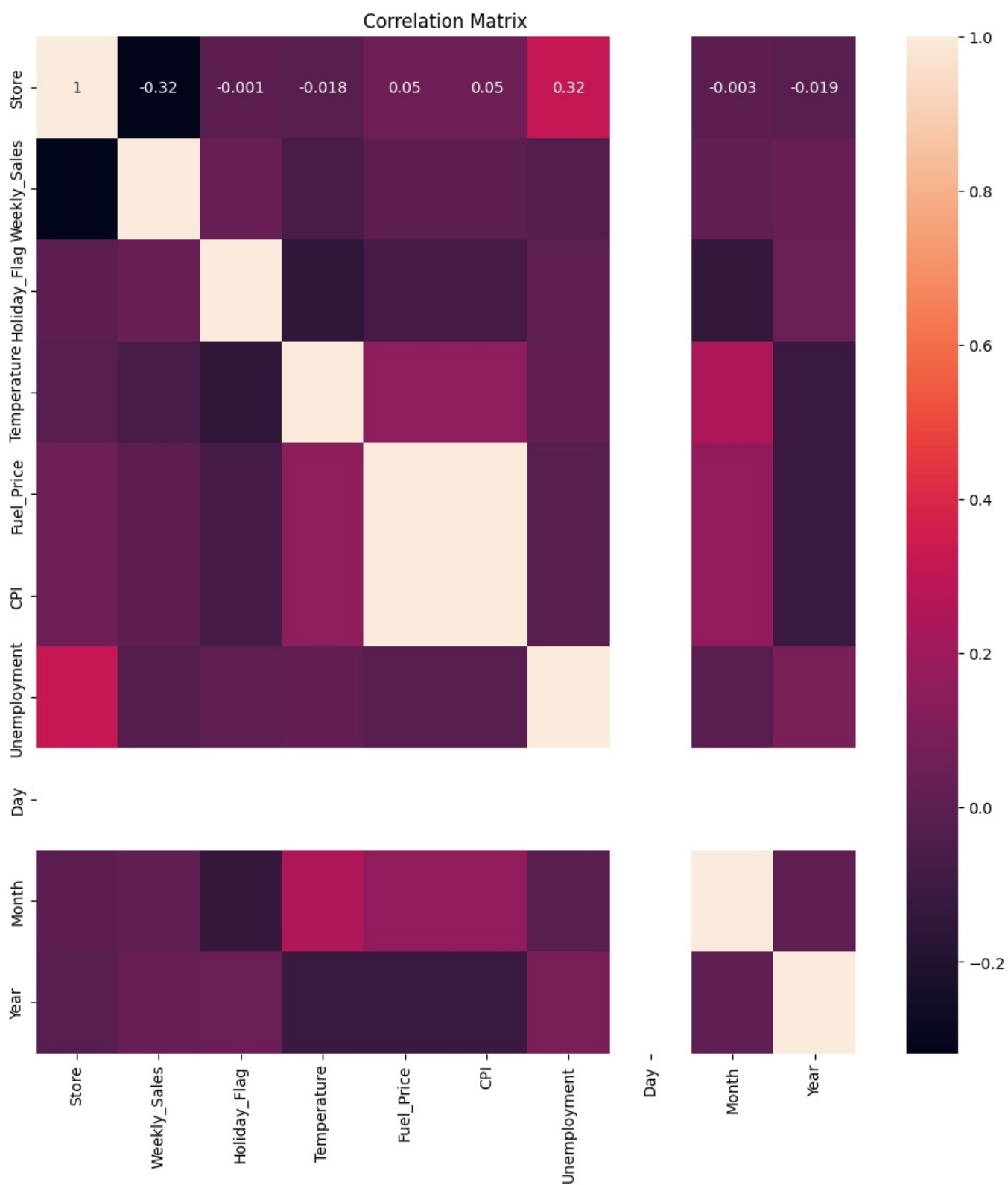
```
Out[40]:
```

	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Day	Month	Year
0	1	1643690.90	0	-1.020386	-1.683290	-1.683290	0.185783	6	3	1
1	1	1641957.44	1	-1.207177	-1.732439	-1.732439	0.185783	6	3	1
2	1	1611968.17	0	-1.137996	-1.801885	-1.801885	0.185783	6	3	1
3	1	1409727.59	0	-0.801827	-1.705830	-1.705830	0.185783	6	3	1
4	1	1554806.68	0	-0.808497	-1.574385	-1.574385	0.185783	6	4	1

Feature Selection

```
In [41]: plt.figure(figsize=(12,12))
sns.heatmap(df.corr(),annot=True)
plt.title('Correlation Matrix')
```

```
Out[41]: Text(0.5, 1.0, 'Correlation Matrix')
```



There is no strong correlation between features and target variable and also between the features themselves.

Pearson Correlation:

Pearson Correlation The Pearson Correlation measures the linear dependence between two variables X and Y.

The result of the pearson correlation gives the coefficient between -1 and 1 inclusive, where coefficient=1, means Perfect positive linear correlation, coefficient=0, means, there is no correlation between the dependent and independent variables and coefficient=-1 means, Perfect negative linear correlation.

P-Value:

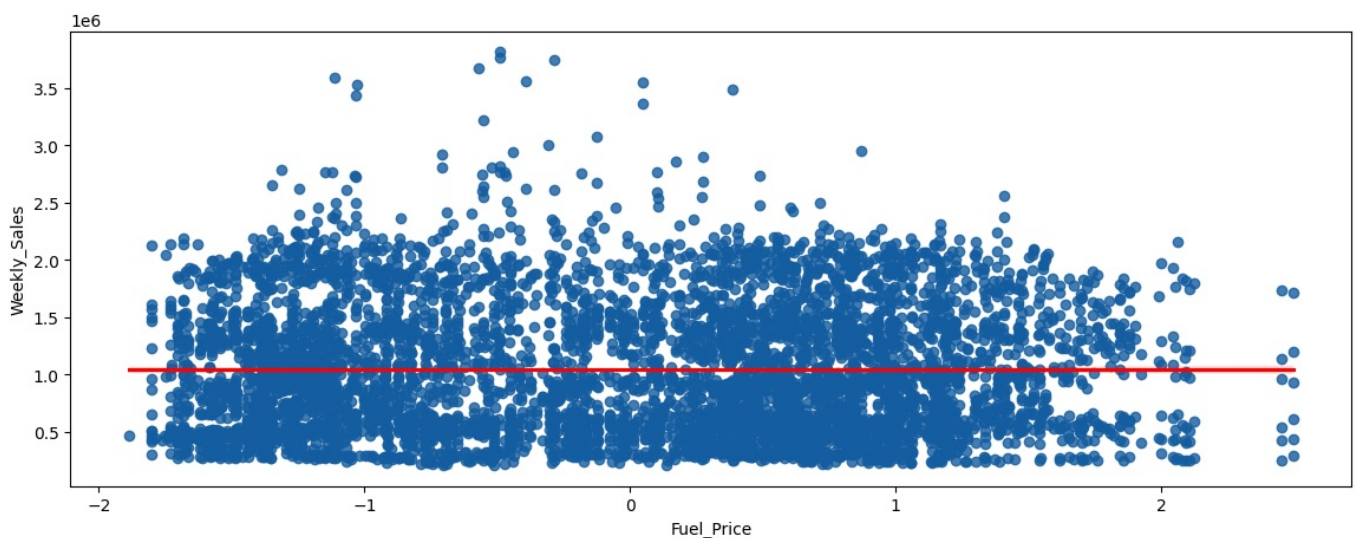
The P-value is the probability value that the correlation between these two variables is statistically significant. Usually, 0.05 is chosen as a significance level, which means we are 96% confident that there is a significant correlation between the dependent and independent variables.

p-value < 0.001: we say there is strong evidence that the correlation is significant. p-value is < 0.05: there is moderate evidence that the correlation is significant. p-value is < 0.1: there is weak evidence that the correlation is significant. p-value is > 0.1: there is no evidence that the correlation is significant.

```
In [42]: # Fuel Price vs. Weekly Sales
pearson_coef, p_value = stats.pearsonr(df['Fuel_Price'], df['Weekly_Sales'])
print("The Pearson Correlation Coefficient is", pearson_coef, " with a P-value of P =", p_value)

plt.figure(figsize = (14, 5))
sns.regplot(data = df, x = 'Fuel_Price', y = 'Weekly_Sales', color = '#145DA0', line_kws = {'color': 'red'})
plt.show()
```

The Pearson Correlation Coefficient is 5.808095505352465e-06 with a P-value of P = 0.9996435437521263



The Pearson correlation coefficient is very close to 0 (0.00011925976638962028), and the p-value is high (P = 0.9926789994996457). A high p-value suggests that there is no significant evidence to reject the null hypothesis that there is no correlation.

Given the close-to-zero correlation coefficient and the high p-value, it indicates that there is no significant linear correlation between the two variables. In other words, there is little to no linear relationship between the variables.

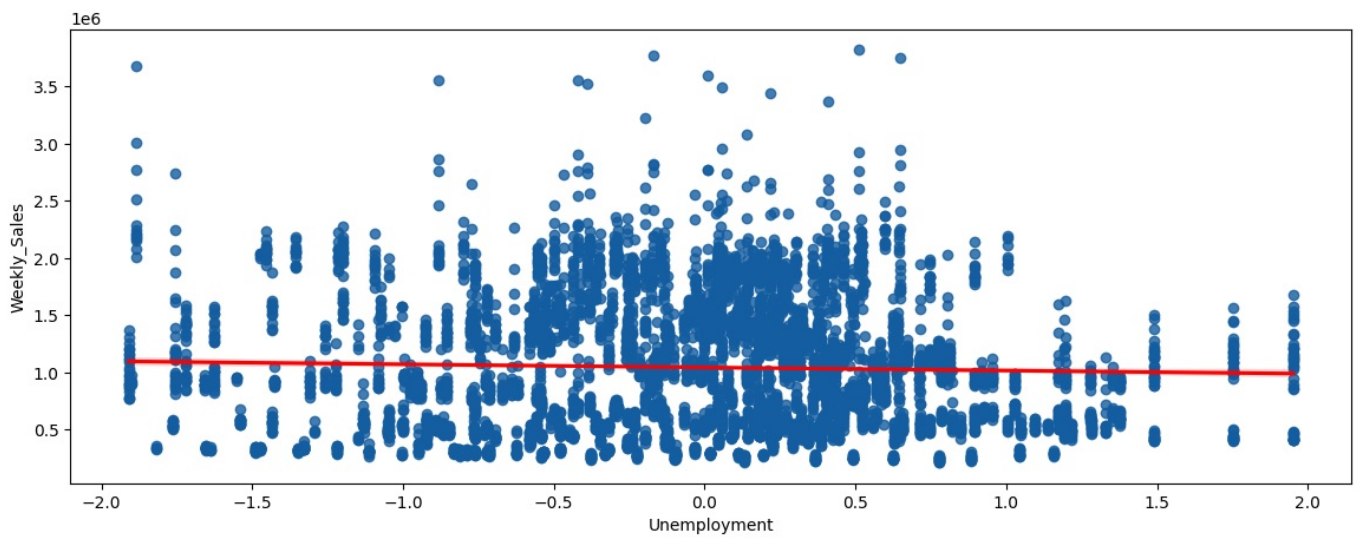
```
In [43]: # Unemployment vs. Weekly Sales
pearson_coef, p_value = stats.pearsonr(df['Unemployment'], df['Weekly_Sales'])
print("The Pearson Correlation Coefficient is", pearson_coef, " with a P-value of P =", p_value)
```

The Pearson Correlation Coefficient is -0.03484819786169707 with a P-value of P = 0.007333772381889686

The Pearson correlation coefficient is -0.034978370135896504. Since this value is close to 0, it suggests a very weak negative linear correlation.

The p-value associated with the correlation coefficient is P = 0.007102503143908282. The p-value helps determine whether the observed correlation is statistically significant. A p-value less than a chosen significance level (commonly 0.05) indicates that the correlation is statistically significant.

```
In [44]: plt.figure(figsize = (14, 5))
sns.regplot(data = df, x = 'Unemployment', y = 'Weekly_Sales', color = '#145DA0', line_kws = {'color': 'red'})
plt.show()
```



```
In [45]: # CPI vs. Weekly Sales
pearson_coef, p_value = stats.pearsonr(df['CPI'], df['Weekly_Sales'])
print("The Pearson Correlation Coefficient is", pearson_coef, " with a P-value of P =", p_value)
```

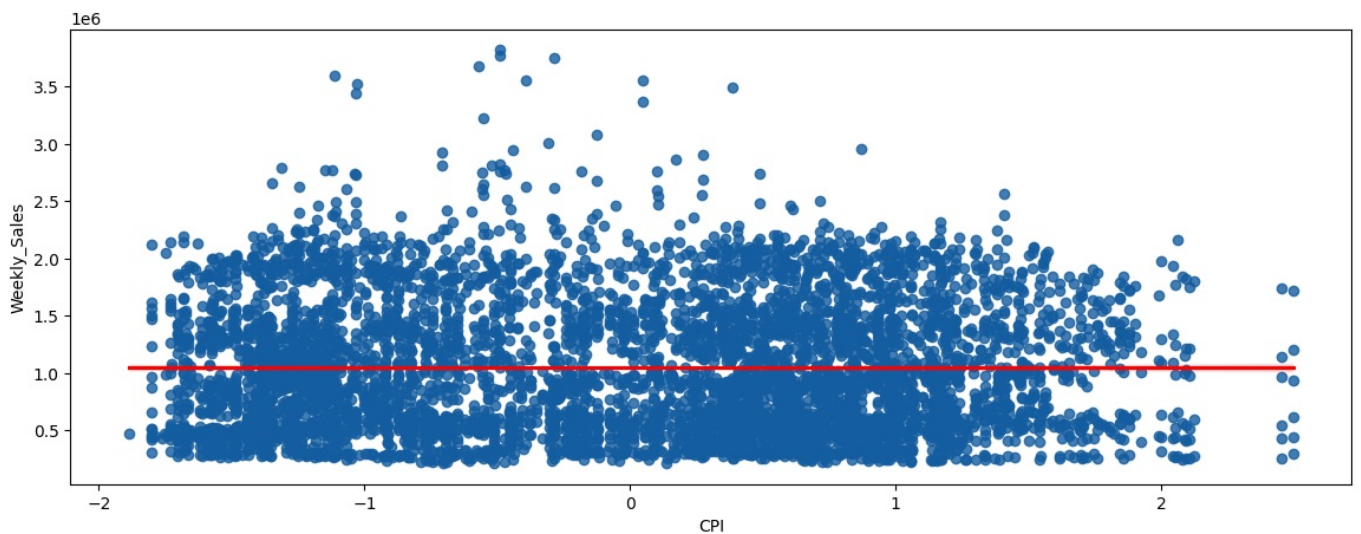
The Pearson Correlation Coefficient is 5.808095505352465e-06 with a P-value of P = 0.9996435437521263

The correlation coefficient is very close to 0, indicating an extremely weak or negligible linear correlation between the variables.

The p-value is very high (close to 1), specifically P = 0.9926789994996457.

This high p-value suggests that there is no significant evidence to reject the null hypothesis that there is no correlation.

```
In [46]: plt.figure(figsize = (14, 5))
sns.regplot(data = df, x = 'CPI', y = 'Weekly_Sales', color = '#145DA0', line_kws = {'color': 'red'})
plt.show()
```

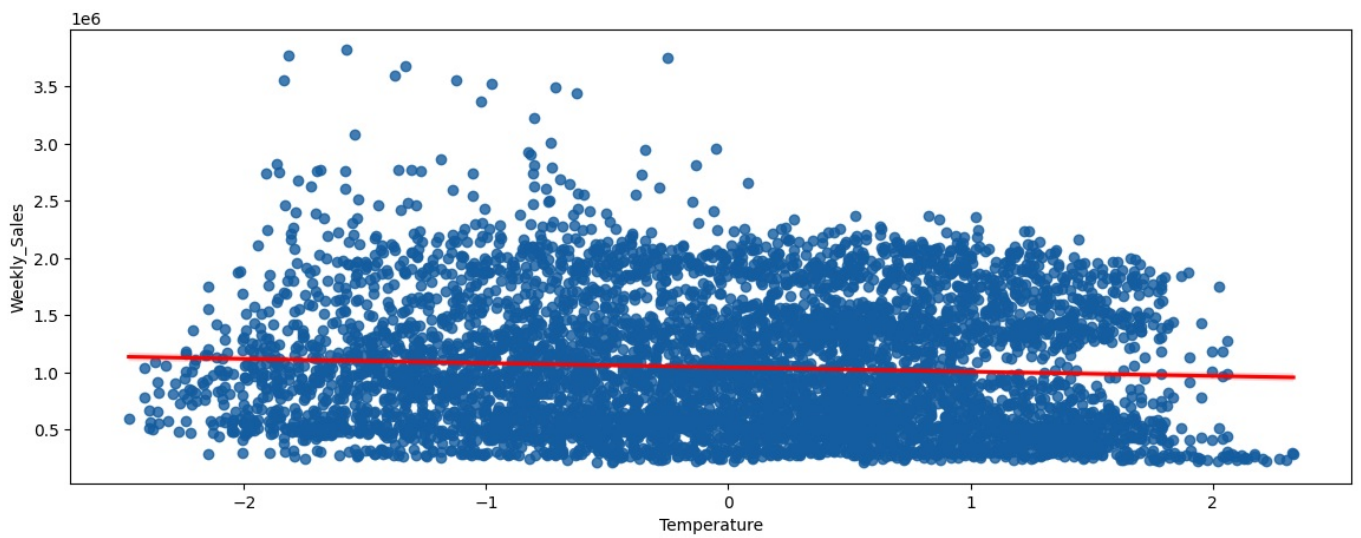


```
In [47]: # Temperature vs. Weekly Sales
pearson_coef, p_value = stats.pearsonr(df['Temperature'], df['Weekly_Sales'])
print("The Pearson Correlation Coefficient is", pearson_coef, " with a P-value of P =", p_value)
```

The Pearson Correlation Coefficient is -0.06550522207881446 with a P-value of P = 4.558991709134621e-07

The correlation coefficient is approximately -0.065, indicating a very weak negative linear correlation between the variables. The p-value is very low (close to 0), specifically P = 5.786996617978268e-07. This low p-value suggests that there is significant evidence to reject the null hypothesis that there is no correlation.

```
In [48]: plt.figure(figsize = (14, 5))
sns.regplot(data = df, x = 'Temperature', y = 'Weekly_Sales', color = '#145DA0', line_kws = {'color': 'red'})
plt.show()
```



```
In [49]: # Correlations with weekly sales
corr = df[['Weekly_Sales', 'Temperature', 'Fuel_Price', 'CPI', 'Unemployment']].corr()['Weekly_Sales'].sort_valu
corr = corr.to_frame()
corr.style.background_gradient(cmap="RdYlBu")
```

Out[49]:

	Weekly_Sales
Weekly_Sales	1.000000
Fuel_Price	0.000006
CPI	0.000006
Unemployment	-0.034848
Temperature	-0.065505

```
In [50]: data_dict = df.to_dict(orient='records')
data_dict
```

```
Out[50]: [{'Store': 1,
'Weekly_Sales': 1643690.9,
'Holiday_Flag': 0,
'Temperature': -1.0203861452174847,
'Fuel_Price': -1.6832903874098846,
'CPI': -1.6832903874098846,
'Unemployment': 0.18578325486136354,
'Day': 6,
'Month': 3,
'Year': 1},
{'Store': 1,
'Weekly_Sales': 1641957.44,
'Holiday_Flag': 1,
'Temperature': -1.2071768519208546,
'Fuel_Price': -1.7324386576146567,
'CPI': -1.7324386576146567,
'Unemployment': 0.18578325486136354,
'Day': 6,
'Month': 3,
'Year': 1},
{'Store': 1,
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'Holiday_Flag': 0,
'Temperature': -1.1379959722009687,
'Fuel_Price': -1.8018852715491207,
'CPI': -1.8018852715491207,
'Unemployment': 0.18578325486136354,
'Day': 6,
'Month': 3,
'Year': 1},
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'Weekly_Sales': 1409727.59,
'Holiday_Flag': 0,
'Temperature': -0.801827320398831,
'Fuel_Price': -1.7058296986970258,
'CPI': -1.7058296986970258,
'Unemployment': 0.18578325486136354,
'Day': 6,
'Month': 3,
'Year': 1},
{'Store': 1,
'Weekly_Sales': 1554806.68,
```

```
'Holiday_Flag': 0,
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'CPI': -1.487722676133914,
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'Day': 6,
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'CPI': -1.3779146532817221,
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'Day': 6,
'Month': 4,
'Year': 1},
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'Fuel_Price': -1.3529833606013428,
'CPI': -1.3529833606013428,
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'Day': 6,
'Month': 4,
'Year': 1},
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'Fuel_Price': -1.3799911130334408,
'CPI': -1.3799911130334408,
'Unemployment': 0.018746347785039204,
'Day': 6,
'Month': 12,
'Year': 1},
{'Store': 1,
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'Fuel_Price': -1.2738670073924232,
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'Unemployment': 0.018746347785039204,
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```

```
'CPI': -1.253004813072446,
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'Month': 11,
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'CPI': -1.296795193003825,
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'Day': 6,
```



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'Month': 6,
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{'Store': 1,
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'Day': 6,
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'Day': 6,
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'Year': 1},
{'Store': 1,
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'Month': 10,
'Year': 1},
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'Month': 10,
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'Holiday_Flag': 0,
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'Day': 6,
'Month': 10,
'Year': 1},
{'Store': 1,
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'CPI': -1.386219431584336,
'Unemployment': 0.035880807285874394,
'Day': 6,
'Month': 10,
'Year': 1},
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'Fuel_Price': -1.4422025645746825,
'CPI': -1.4422025645746825,
'Unemployment': 0.035880807285874394,
'Day': 6,
'Month': 2,
'Year': 1},
{'Store': 1,
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'Temperature': -0.10923998626749504,
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'CPI': -1.361296615716091,
'Unemployment': 0.035880807285874394,
'Day': 6,
'Month': 2,
'Year': 1},
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'Unemployment': -0.9400506317259043,
'Day': 6,
'Month': 5,
'Year': 1},
{'Store': 8,
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'CPI': -1.662781024492241,
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'Month': 7,
'Year': 1},
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'Temperature': 0.6086253679990153,
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'CPI': -1.5764440614170374,
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'Temperature': 0.40449799351141347,
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'Unemployment': -0.8556498980335281,
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'Month': 10,
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'Year': 1},
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'Temperature': 0.07638514135646832,
'Fuel_Price': -1.5579019067883768,
'CPI': -1.5579019067883768,
'Unemployment': -0.8556498980335281,
'Day': 6,
'Month': 10,
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'CPI': -1.3779146532817221,
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'Month': 10,
'Year': 1},
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'CPI': -1.3675297042235008,
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'Fuel_Price': -1.361296615716091,
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{'Store': 8,
'Weekly_Sales': 885608.04,
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'Fuel_Price': -1.27178157549838,
'CPI': -1.27178157549838,
'Unemployment': -0.8556498980335281,
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'Month': 2,
'Year': 1},
{'Store': 8,
'Weekly_Sales': 1261693.16,
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'CPI': -1.3467465675678518,
'Unemployment': -0.8556498980335281,
'Day': 6,
'Month': 2,
'Year': 1},
...]
```

```
In [51]: # inserting cleaned and enriched data into the mongodb
client=get_connection(connection_string)
mydb=client[db_name]
collection=mydb['preprocessed_data']
# inserting code has been commented as of now, because we dont want to insert same documents multiple times to c
collection.insert_many(data_dict)
```

```
Out[51]: <pymongo.results.InsertManyResult at 0x2c04c02d6c0>
```