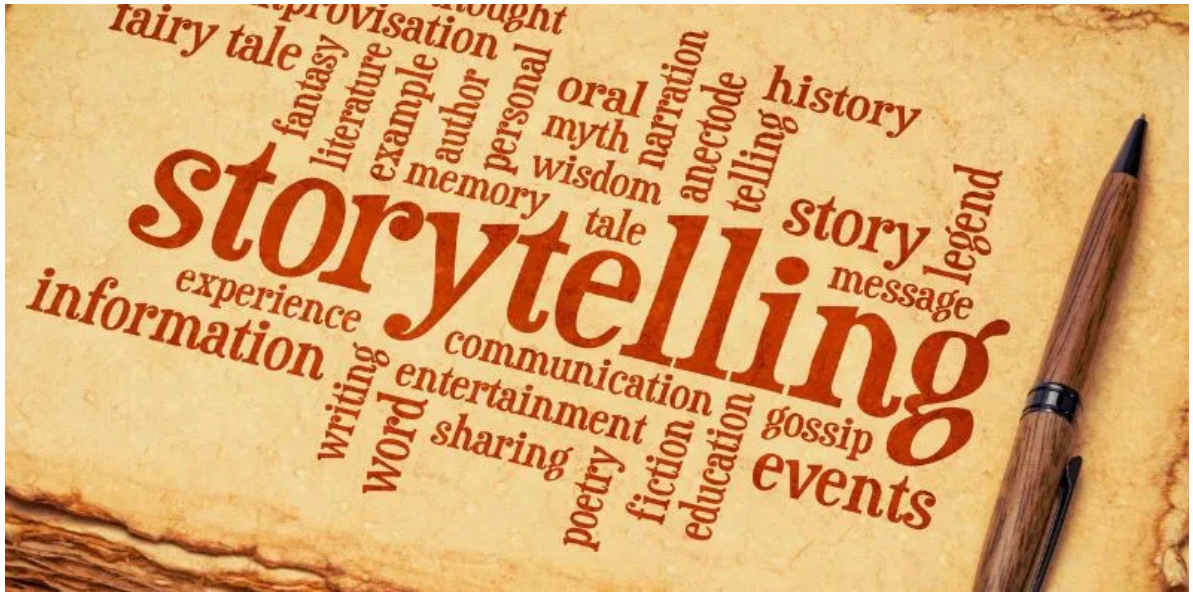




# Story Telling

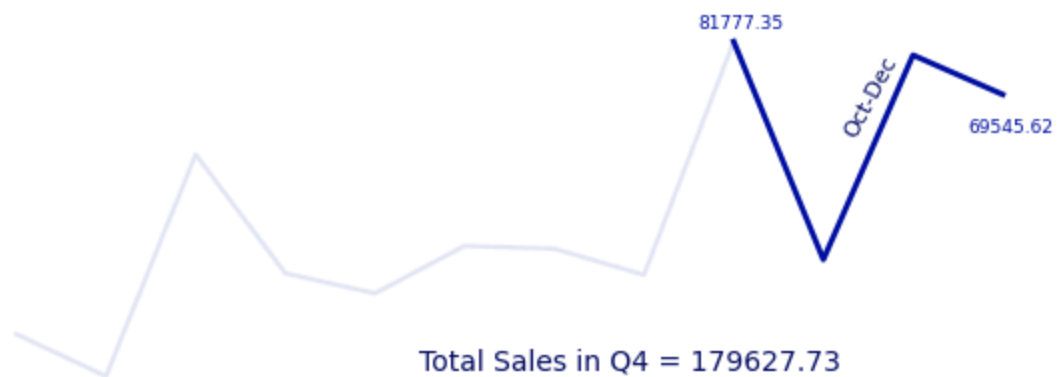


**File Name : "month\_sales.csv"**

**Demo Output :**

## Quarterly Performance Review of Market

Total Sales in each Quarter



```
In [85]: 1 import pandas as pd
          2 import matplotlib.pyplot as plt
          3 import seaborn as sns
```

```
In [86]: 1 #importing files
          2 dataset = pd.read_csv("month_sales.csv")
          3 dataset
```

Out[86]:

	Months	sales
0	1	14236.90
1	2	4519.89
2	3	55691.01
3	4	28295.35
4	5	23648.29
5	6	34595.13
6	7	33946.39
7	8	27909.47
8	9	81777.35
9	10	31453.39
10	11	78628.72
11	12	69545.62

```
In [87]: 1 dataset[0 : 3] #first quarter
          2 dataset[2: 6] #second quarter
          3 dataset[5 : 9] #third
          4 dataset[8 : 12] #fourth
          5
          6 quart_1 = dataset[0 : 3]
          7 quart_2 = dataset[2 : 6]
          8 quart_3 = dataset[5 : 9]
          9 quart_4 = dataset[8 : 12]
```



In [207]:

```

1  #plt.subplots(4,1 , figsize = (8,7))
2  fig , (ax1 , ax2 , ax3, ax4) = plt.subplots(4,1 , figsize = (8,7))
3
4  #ax1.plot(dataset["Months"] , dataset["sales"])
5  #ax2.plot(dataset["Months"] , dataset["sales"])
6  axes = (ax1 , ax2 , ax3, ax4)
7
8  for ax in axes:
9      ax.plot(dataset["Months"] , dataset["sales"] ,\
10             color = "#26148f" , alpha = 0.2)
11
12     ax.set_yticklabels([])
13     ax.set_xticklabels([])
14
15     ax.tick_params(bottom = 0 , left = 0)
16
17     for location in ['left' , 'right' , 'bottom' , 'top']:
18         ax.spines[location].set_visible(False)
19
20
21 ax1.plot(quart_1["Months"] , quart_1["sales"] , color = "#1d0c7a")
22 ax2.plot(quart_2["Months"] , quart_2["sales"] , color = "#1d0c7a")
23 ax3.plot(quart_3["Months"] , quart_3["sales"] , color = "#1d0c7a")
24 ax4.plot(quart_4["Months"] , quart_4["sales"] , color = "#1d0c7a")
25
26
27 #labelling the no of cases
28 #ax1.text(20,300 , "Data Science")
29
30 ax1.text(0.8 , 20000 , "14236.90" , alpha = 0.7 , color = "#1c0b7a")
31 ax1.text(2.9 , 60000 , "55691.01" , alpha = 0.7 , color = "#1c0b7a")
32
33 ax2.text(2.9 , 60000 , "55691.01" , alpha = 0.7 , color = "#1c0b7a")
34 ax2.text(5.7 , 50000 , "34595.13" , alpha = 0.7 , color = "#1c0b7a")
35
36 ax3.text(5.7 , 50000 , "34595.13" , alpha = 0.7 , color = "#1c0b7a")
37 ax3.text(8.8 , 90000 , "81777.35" , alpha = 0.7 , color = "#1c0b7a")
38
39
40 ax4.text(8.8 , 90000 , "81777.35" , alpha = 0.7 , color = "#1c0b7a")
41 ax4.text(12 , 80000 , "69545.62" , alpha = 0.7 , color = "#1c0b7a")
42
43
44 ax1.text(2.2 , 100 , "Jan_Mar" , rotation = 55 , color = "#1c0b7a")
45 ax2.text(3.8 , 7000 , "Apr_Jun" , rotation = -6 , color = "#1c0b7a")
46 ax3.text(7.9 , 50000 , "Jul_Sep" , rotation = 53 , color = "#1c0b7a")
47 ax4.text(9.9 , 50000 , "Oct_Dec" , rotation = 53 , color = "#1c0b7a")
48
49
50
51 ax1.text( 0.5 , 100000 , "Quarterly Performance Review of Market" ,\
52 fontdict = {'family' : 'serif' , 'size' : 15 , 'weight' : 'bold'})
53 ax1.text( 0.5 , 90000 , "Total Sales in each Quater" ,\
54 fontdict = {'size' : 10})
55
56
57

```

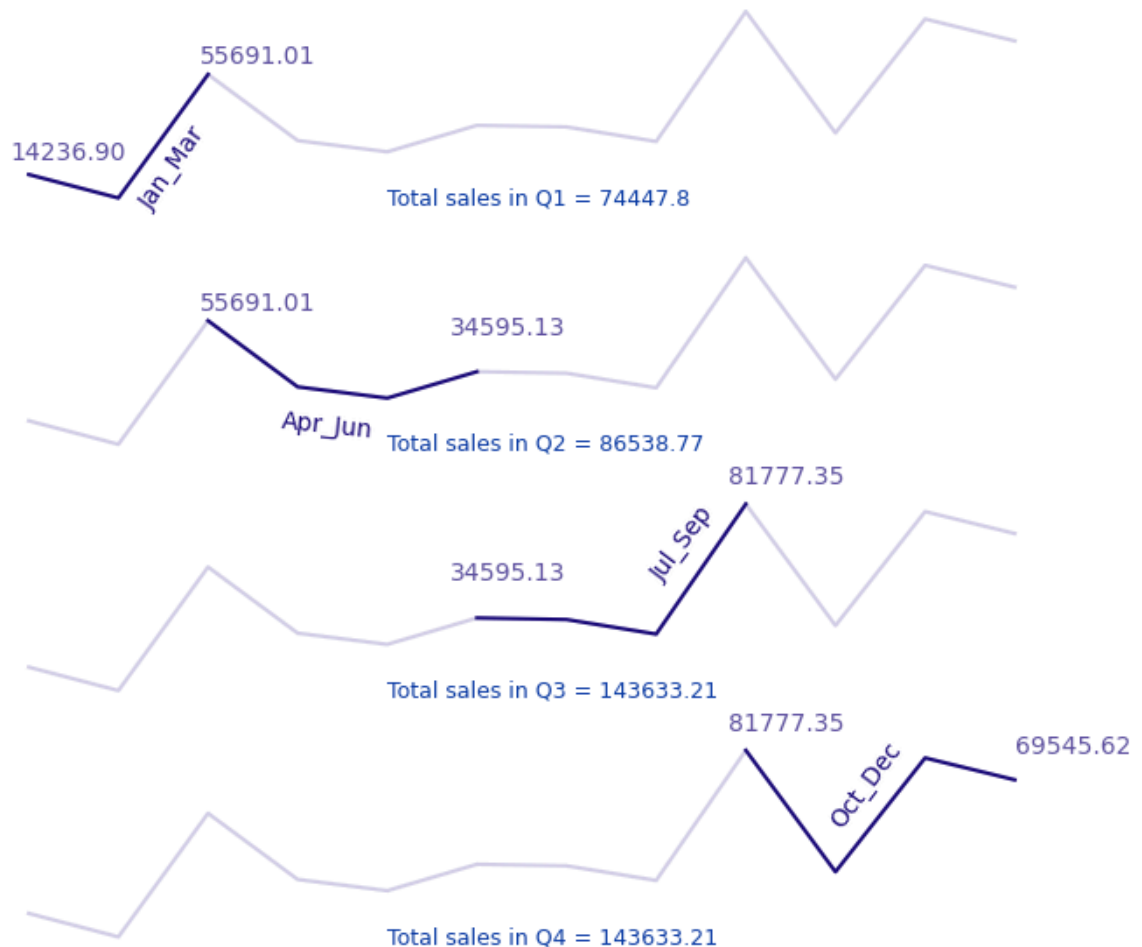
```

58
59 dataset['Cumulative_Sales'] = dataset['sales'].cumsum()
60
61
62 sum_of_quart1 = round(dataset['sales'][0:3].sum(),2)
63 sum_of_quart2 = round(dataset['sales'][3:6].sum(),2)
64 sum_of_quart3 = round(dataset['sales'][6:9].sum(),2)
65 sum_of_quart4 = round(dataset['sales'][9:12].sum(),2)
66
67
68 ax1.text(5,1900, "Total sales in Q1 = " + str(sum_of_quart1) ,\
69         fontdict = { "color" : "#0C3CA6", "size" : 9,})
70 ax2.text(5,1900, "Total sales in Q2 = " + str(sum_of_quart2) ,\
71         fontdict = { "color" : "#0C3CA6", "size" : 9,})
72 ax3.text(5,1900, "Total sales in Q3 = " + str(sum_of_quart3) ,\
73         fontdict = { "color" : "#0C3CA6", "size" : 9,})
74 ax4.text(5,1900, "Total sales in Q4 = " + str(sum_of_quart3) ,\
75         fontdict = { "color" : "#0C3CA6", "size" : 9,})
76
77
78
79
80 plt.show()

```

## Quarterly Performance Review of Market

Total Sales in each Quarter



In [ ]:	1	
In [ ]:	1	
In [ ]:	1	