import pandas as pd
from plotly import graph\_objects as go
import plotly.express as px

blinkit\_df = pd.read\_excel('\_/content/BlinkIT Grocery Data.xlsx')
blinkit\_df.head()

<del>}</del> ▼		Item Fat Content	Item Identifier	Item Type	Outlet Establishment Year	Outlet Identifier	Outlet Location Type	Outlet Size	Outlet Type	Item Visibility	Item Weight	Sales	Rating
	0	Regular	FDX32	Fruits and Vegetables	2012	OUT049	Tier 1	Medium	Supermarket Type1	0.100014	15.10	145.4786	5.0
	1	Low Fat	NCB42	Health and Hygiene	2022	OUT018	Tier 3	Medium	Supermarket Type2	0.008596	11.80	115.3492	5.0
:	2	Regular	FDR28	Frozen Foods	2016	OUT046	Tier 1	Small	Supermarket Type1	0.025896	13.85	165.0210	5.0
;	3	Regular	FDL50	Canned	2014	OUT013	Tier 3	High	Supermarket Type1	0.042278	12.15	126.5046	5.0
	4	Low Fat	DRI25	Soft Drinks	2015	OUT045	Tier 2	Small	Supermarket Type1	0.033970	19.60	55.1614	5.0

ivext steps

Next steps: Generate code with blinkit\_df

View recommended plots

New interactive sheet

Supermarket

0.000000

NaN 112 2544 4 N

Tier 3 Medium

blinkit\_df.tail()

₹		Item Fat Content	Item Identifier	Item Type	Outlet Establishment Year	Outlet Identifier	Outlet Location Type	Outlet Size	Outlet Type	Item Visibility	Item Weight	Sales	Rating
	8518	low fat	NCT53	Health and Hygiene	2018	OUT027	Tier 3	Medium	Supermarket Type3	0.000000	NaN	164.5526	4.0
	8519	low fat	FDN09	Snack Foods	2018	OUT027	Tier 3	Medium	Supermarket Type3	0.034706	NaN	241.6828	4.0
	8520	low fat	DRE13	Soft Drinks	2018	OUT027	Tier 3	Medium	Supermarket Type3	0.027571	NaN	86.6198	4.0
	8521	reg	FDT50	Dairy	2018	OUT027	Tier 3	Medium	Supermarket Type3	0.107715	NaN	97.8752	4.0

OLITO27

2018

blinkit\_df.info()

2522

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8523 entries, 0 to 8522

dtypes: float64(4), int64(1), object(7)

rea

Data columns (total 12 columns): Non-Null Count Dtype # Column Item Fat Content 8523 non-null 0 object Item Identifier 8523 non-null 1 object Item Type 8523 non-null object Outlet Establishment Year 8523 non-null int64 Outlet Identifier 8523 non-null object Outlet Location Type 8523 non-null object Outlet Size 8523 non-null object Outlet Type 8523 non-null object Item Visibility 8523 non-null float64 Item Weight float64 7060 non-null 10 Sales 8523 non-null float64 11 Rating float64 8523 non-null

Snack

FDM58

blinkit\_df.describe()

memory usage: 799.2+ KB



blinkit\_df.describe(include='object')

<b>₹</b>		Item Fat Content	Item Identifier	Item Type	Outlet Identifier	Outlet Location Type	Outlet Size	Outlet Type
	count	8523	8523	8523	8523	8523	8523	8523
	unique	5	1559	16	10	3	3	4
	top	Low Fat	FDW13	Fruits and Vegetables	OUT027	Tier 3	Medium	Supermarket Type1

blinkit\_df['Item Fat Content'] = blinkit\_df['Item Fat Content'].replace(['LF','low fat','reg'],['Low Fat','Low Fat','Regular'])

blinkit\_df['Item Fat Content'].value\_counts()



dtype: int64

Total\_Sales = blinkit\_df['Sales'].sum()
print(f'Rs.{Total\_Sales.round()}')

→ Rs.1201681.0

Average\_Sales = blinkit\_df['Sales'].mean()
print(f'Rs.{Average\_Sales.round()}')

→ Rs.141.0

No\_of\_Items = blinkit\_df['Item Identifier'].count()
print( 'Number of items ',No\_of\_Items)

→ Number of items 8523

Average\_ratings = blinkit\_df['Rating'].mean()
print(f'{Average\_ratings.round()}%')

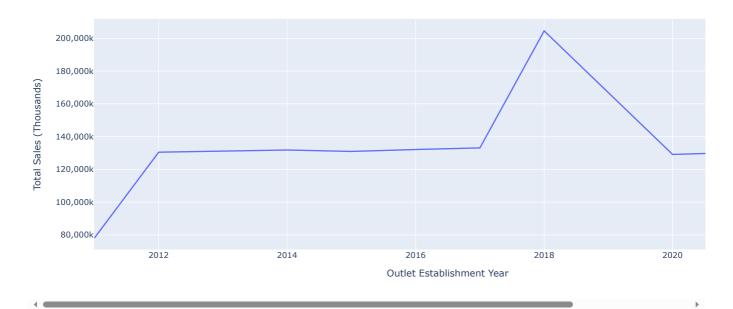
<del>→</del> 4.0%

sales\_by\_outlet\_year = blinkit\_df.groupby('Outlet Establishment Year')['Sales'].sum().reset\_index()
fig = px.line(sales\_by\_outlet\_year, x='Outlet Establishment Year', y='Sales', title='Total Sales by Outlet Establishment Year')
fig.update\_yaxes(title\_text='Total Sales (Thousands)', tickformat=',.0f', ticksuffix='k')
fig.show()

....

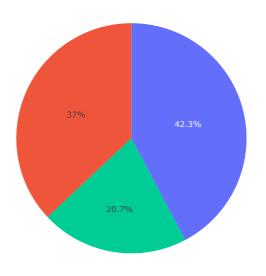


# Total Sales by Outlet Establishment Year





# Total Sales by Outlet Size



```
sales_by_outlet_location = blinkit_df.groupby('Outlet Location Type')['Sales'].sum().sort_values(ascending=False)
stages = sales_by_outlet_location.index.tolist()
values = sales_by_outlet_location.values.tolist()
fig = go.Figure(go.Funnel(
    y = stages,
    x = values,
    textinfo = "value+percent initial"))
fig.update_layout(title='Sales Funnel by Outlet Location')
fig.show()
```



# Sales Funnel by Outlet Location



Avera	<pre>!_Sales=('Sales', er_of_Items=('Item age_Sales=('Sales age_Rating=('Ratin andex()</pre>	m Identifier' ', 'mean'),	, 'count'),			
ales_by_o	* * *	_values(by='T	otal_Sales', asce	nding=False, in	place=True)	
<u>-</u>	Outlet Type	Total_Sales	Number_of_Items	Average_Sales	Average_Rating	<b>≡</b>
1 :	Supermarket Type1	787549.8928	5577	141.213895	3.963242	11.
0	Grocery Store	151939.1490	1083	140.294690	3.985873	*/
2 :	Supermarket Type2	131477.7764	928	141.678638	3.971228	
	Supermarket Type3	130714.6746	935	139.801791	3.952941	

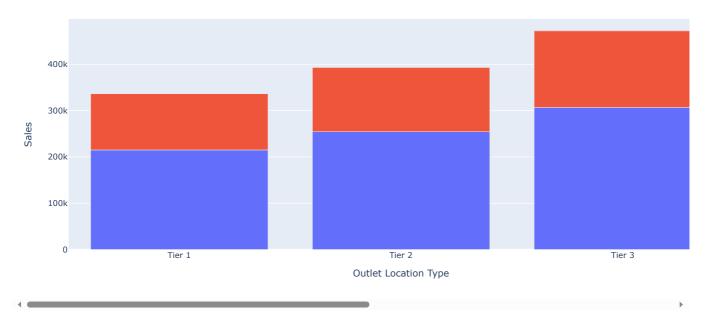


#### Total Sales by Item Fat Content

fig.show()



## Total Sales by Outlet Location Type and Item Fat Content



total\_sales\_item\_type = blinkit\_df.groupby('Item Type')['Sales'].sum().reset\_index()
fig = px.bar(total\_sales\_item\_type, y='Item Type', x='Sales', title='Total Sales by Item Type',category\_orders= {'Item Type': sorted(totfig.update\_layout(yaxis={'categoryorder':'total ascending'})
fig.show()



## Total Sales by Item Type

