NAME – SARTHAK KADAM
CLASS – SYCS-A
ROLL NO. 5863

CASE STUDY

DATA VISUALIZATION
ON " McDonald's Dataset".

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McDonald’s Dataset

About Dataset:

Context:

McDonald’s in India was started in 1996 in Bandra, Mumbai with one single restaurant. It took almost twelve years to grow one restaurant to 50. Today, McDonald's, that arrived in India without its signature Big Mac (substituted in India by the Maharaja Mac) has about 480 stores all over India providing happy meals to folks and families of India.

Content:

This dataset provides a nutrition analysis of every menu item on the Indian McDonald's menu, including breakfast, burgeres, fries, salads, soda, coffee and tea, milkshakes, and desserts.

Acknowledgements

The menu items and nutrition facts were scraped from the McDonald's website

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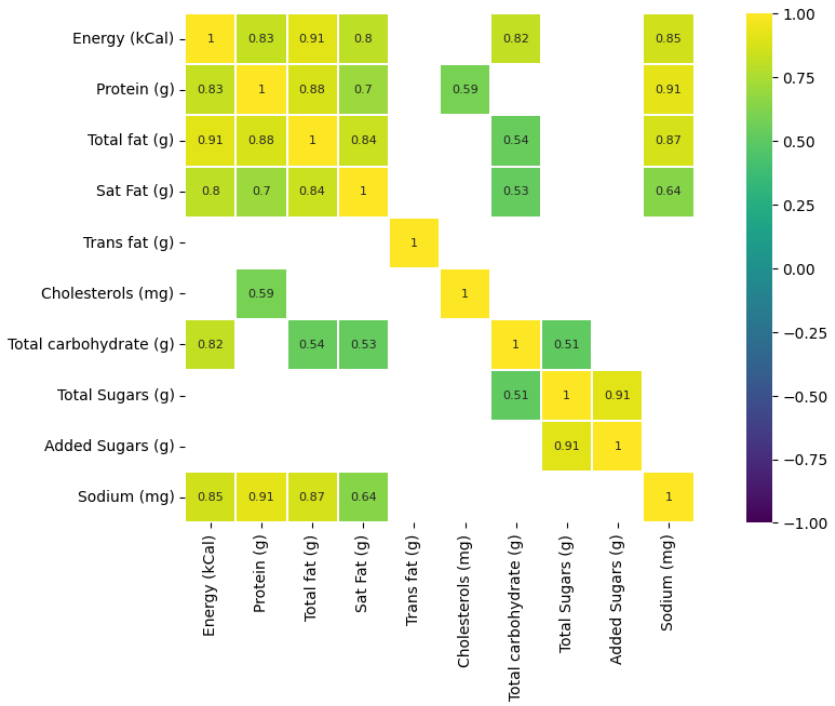
1. Nutrition Values

CODE:

```
import  pandas as pd

import  seaborn as sns

import  matplotlib.pyplot as plt

df = pd.read_csv(r'A:/DV/India_Menu.csv')

corr = df.drop(['Menu Category', 'Menu Items'], axis=1).corr() # We already examined SalePrice correlations

plt.figure(figsize=(12, 10))

sns.heatmap(corr[(corr>= 0.5) | (corr<= -0.4)], cmap='viridis', vmax=1.0, vmin=-1.0, linewidths=0.1,annot=True, annot_kws={"size": 8}, square=True);

plt.show()
```

OUTPUT:



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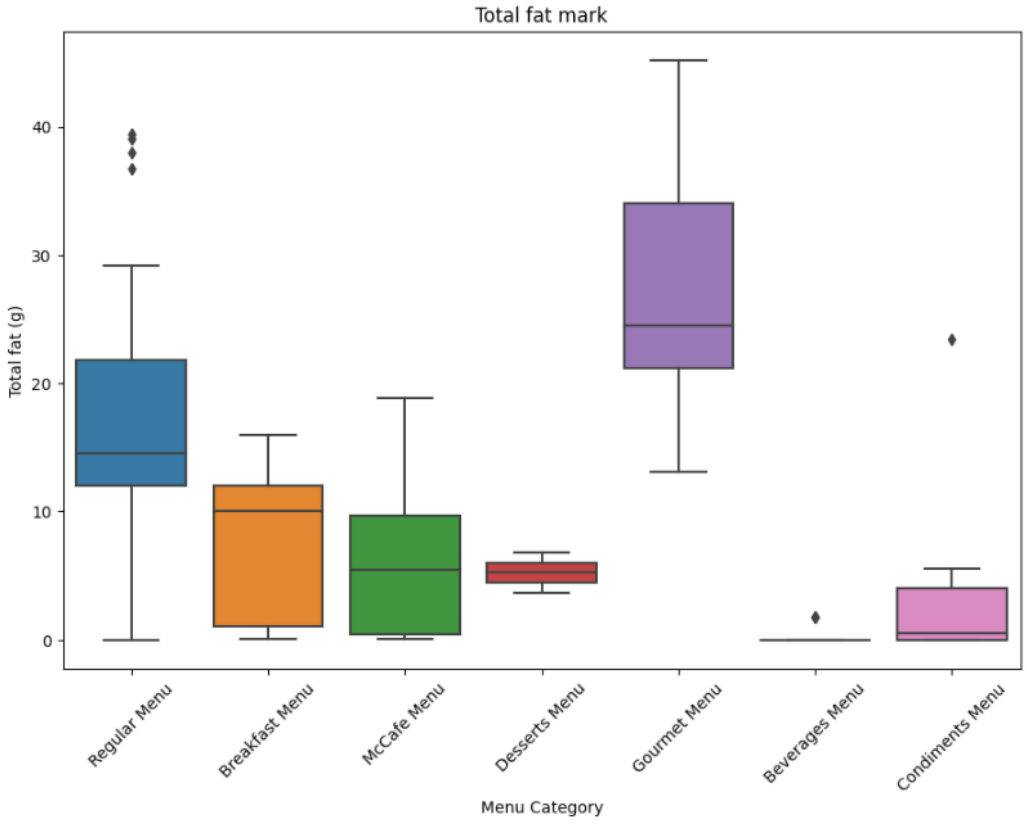
2.**TOTAL FAT MARK**

CODE:

```
import  pandas as pd
import  seaborn as sns
import  matplotlib.pyplot as plt
df = pd.read_csv(r'A:/DV/India_Menu.csv')
plt.figure(figsize = (12, 6))
ax = sns.boxplot(x='Menu Category', y='Total fat (g)', data=df)
plt.setp(ax.artists, alpha=.5, linewidth=2, edgecolor="k")
plt.xticks(rotation=45)
plt.title('Total fat mark')
plt.show()
```

OUTPUT:



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3.Energy with Protein and Total Sugar

CODE:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
pd.options.mode.chained_assignment = None
df = pd.read_csv(r'A:/DV/India_Menu.csv')
df2=df[['Protein (g)','Energy (kCal)']]
df2['Total Sugars (g)']=df['Total Sugars (g)']
df3 = df2.loc[(df2['Total Sugars (g)']>0) &(df2['Protein (g)']>0) &(df2['Energy (kCal)'])]
fig, ax = plt.subplots(nrows=2, ncols=1,sharex= True)
fig.set_figheight(8)
fig.set_figwidth(10)
ax[0].scatter(df3['Energy (kCal)'],df3['Protein (g)'],color='#9467bd')
ax[1].scatter(df3['Energy (kCal)'],df3['Total Sugars (g)'],color='#9467bd')
ax[1].set_xlabel('Energy in kCal')
ax[0].set_ylabel('Protein Count in g')
ax[1].set_ylabel('Total Sugar Count in g')
fig = plt.title('Scatterplot of Energy with Protein and Total Sugar',fontsize=15)
plt.tight_layout()
plt.show()
```

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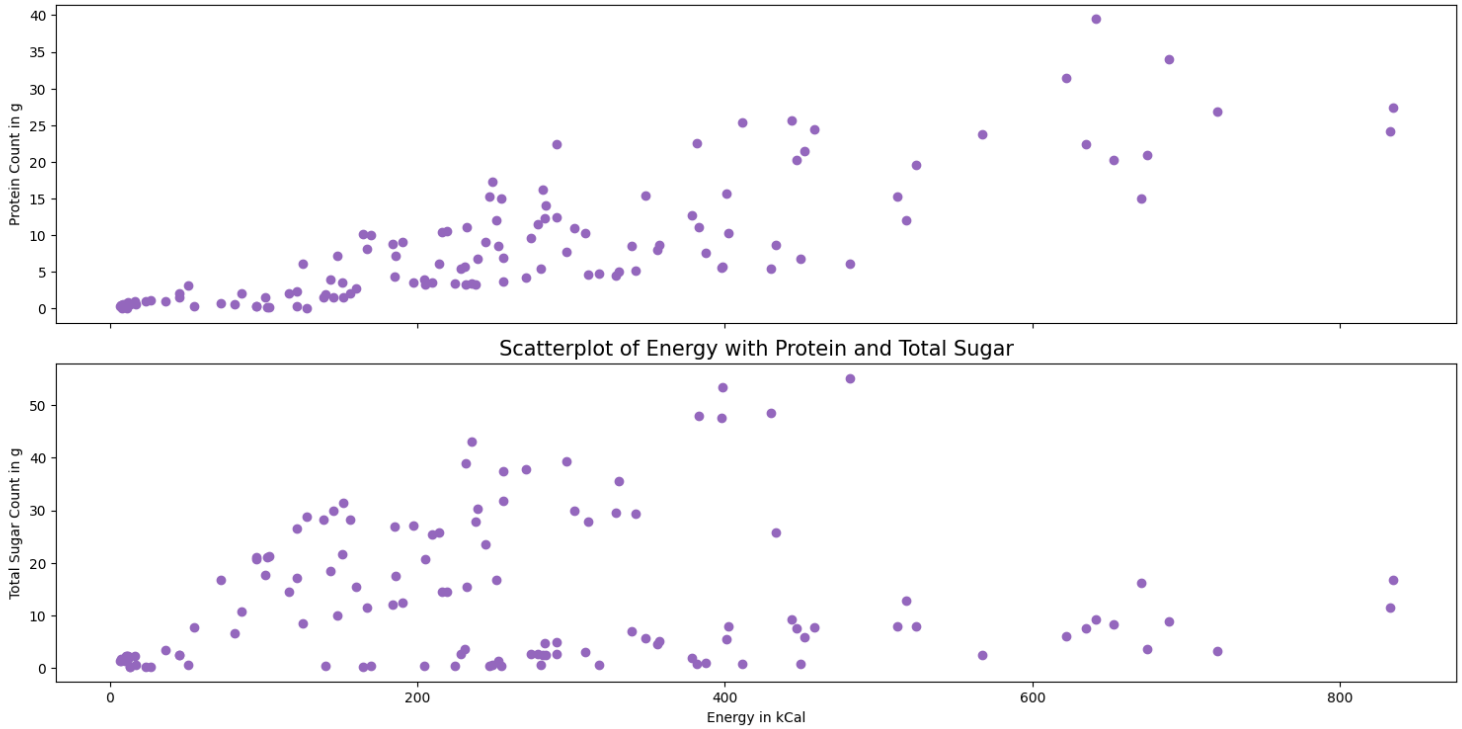
ROLL NO. 5863

OUTPUT:



Scatterplot of Energy with Protein and Total Sugar