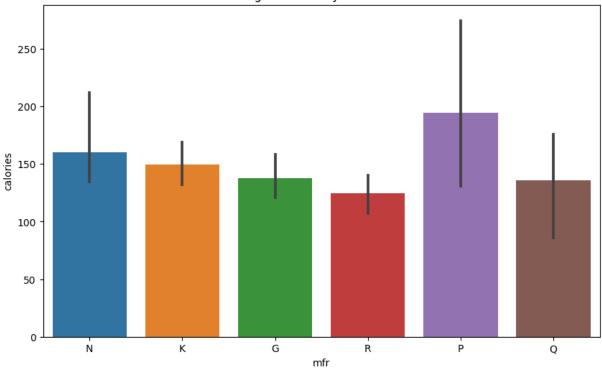
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load the CSV file into a DataFrame
data = pd.read_csv('Uscereal.csv')

# Create a bar plot
plt.figure(figsize=(10, 6))
sns.barplot(x='mfr', y='calories', data=data)
plt.title('Average Calories by Manufacturer')
plt.show()
```

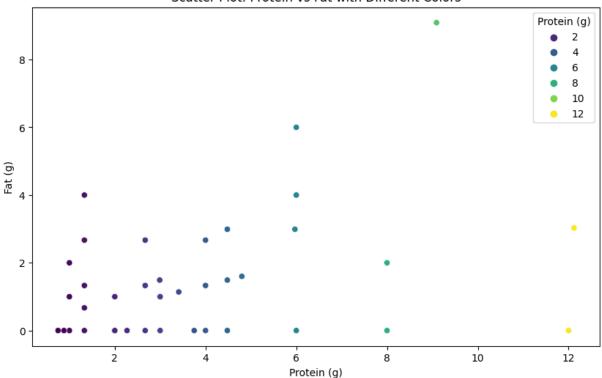
Average Calories by Manufacturer

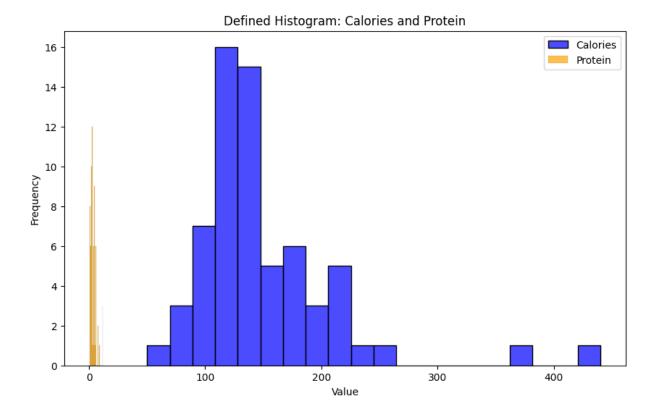


```
In [ ]: data.dropna(subset=['protein', 'fat'], inplace=True)

plt.figure(figsize=(10, 6))
    sns.scatterplot(x='protein', y='fat', hue='protein', palette='viridis', data=data)
    plt.xlabel('Protein (g)')
    plt.ylabel('Fat (g)')
    plt.title('Scatter Plot: Protein vs Fat with Different Colors')
    plt.legend(title='Protein (g)', loc='upper right')
    plt.show()
```

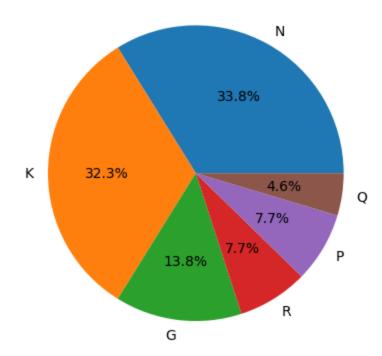
Scatter Plot: Protein vs Fat with Different Colors



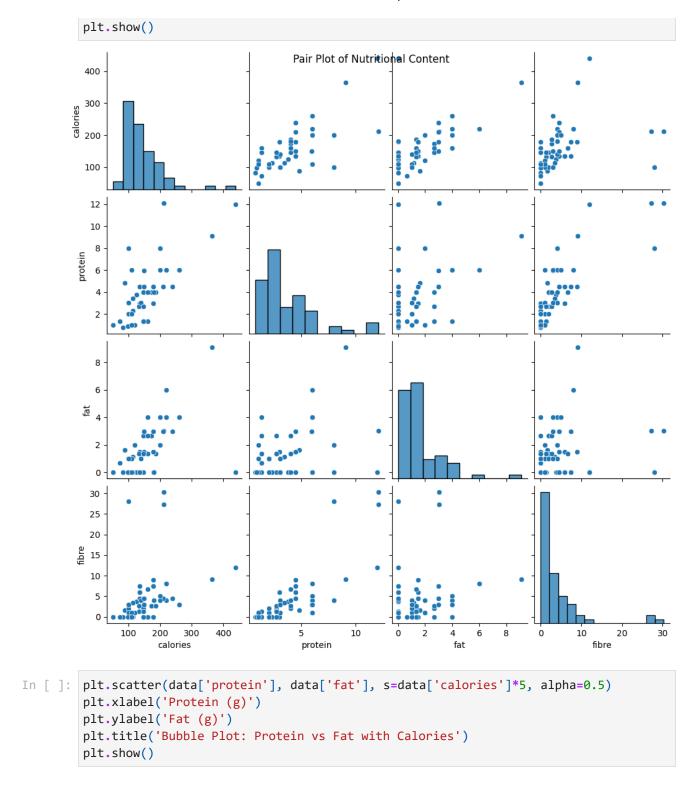


```
In [ ]: plt.pie(data['mfr'].value_counts(), labels=data['mfr'].unique(), autopct='%1.1f%%')
    plt.title('Distribution of Manufacturers')
    plt.show()
```

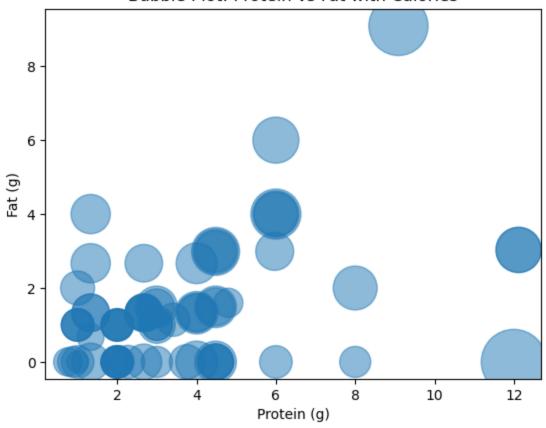
Distribution of Manufacturers



```
In [ ]: sns.pairplot(data[['calories', 'protein', 'fat', 'fibre']])
   plt.suptitle('Pair Plot of Nutritional Content')
```

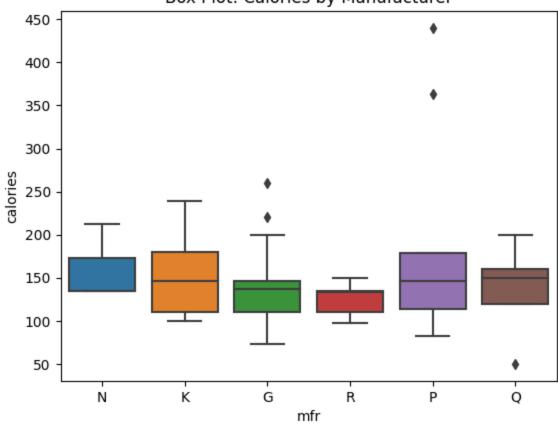


Bubble Plot: Protein vs Fat with Calories



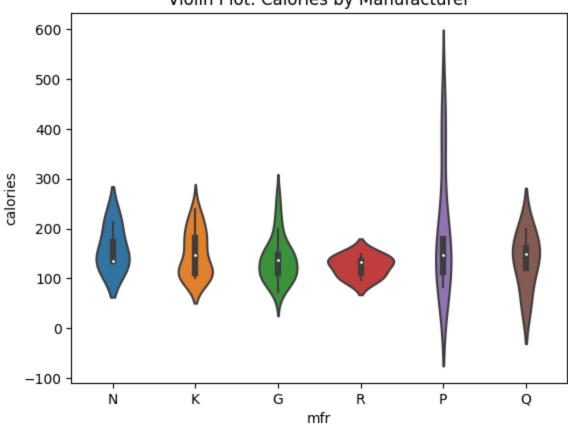
```
In [ ]: sns.boxplot(x='mfr', y='calories', data=data)
   plt.title('Box Plot: Calories by Manufacturer')
   plt.show()
```

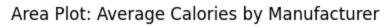


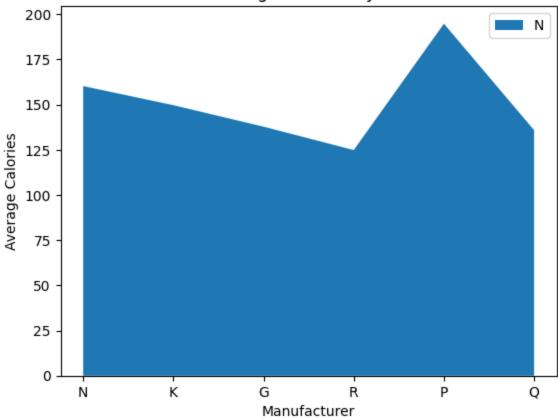


```
In [ ]: sns.violinplot(x='mfr', y='calories', data=data)
    plt.title('Violin Plot: Calories by Manufacturer')
    plt.show()
```









In []: