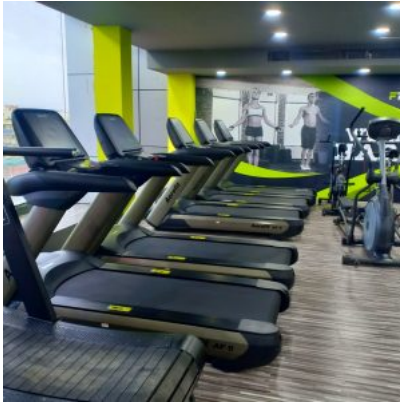


✓ AEROFIT: Descriptive Stats & Probability



!gdown https://d2beiqkhq929f0.cloudfront.net/public_assets/assets/000/001/125/original/aerofit_treadmill.csv?1639992749

Downloading...
 From: https://d2beiqkhq929f0.cloudfront.net/public_assets/assets/000/001/125/original/aerofit_treadmill.csv?1639992749
 To: /content/aerofit_treadmill.csv?1639992749
 100% 7.28k/7.28k [00:00<00:00, 23.7MB/s]

1) Defining Problem Statement and Analysing basic metrics:

Problem Statement:

The problem at hand is to analyze and understand the factors influencing the purchase decision of a treadmill product (KP281, KP481, or KP781) based on various customer attributes. The goal is to uncover patterns and insights that can aid in optimizing marketing strategies and product offerings by using the following datas.

Product Purchased: All three products (KP281, KP481, KP781) are **represented** in the dataset, indicating a diverse range of offerings.

Age: The age range provides the understanding to find the target age group to the selective products.

Gender: Understanding the gender distribution helps to promote the various products cater to the preferences of different genders.

Education: The range of education years gives an indication of the educational background of the customer base.

MaritalStatus: The distribution between Single and Partnered customers can impact marketing messages and product features.

Usage: The distribution of usage patterns helps in understanding how frequently customers using the product in a week, influencing marketing and product development.

Income: Understanding income distribution provides insights into the purchasing capacity of the customer base, affecting pricing and promotional strategies.

Fitness: The distribution of self-rated fitness levels helps in identifying the fitness-conscious segment of customers.

Miles: Understanding the expected miles reveals the intensity of expected product usage, guiding product design and feature decisions.

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

```
df = pd.read_csv('aerofit_treadmill.csv?1639992749')
df.head()
```

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 |
| 2 | KP281 | 19 | Female | 14 | Partnered | 4 | 3 | 30699 | 66 |
| 3 | KP281 | 19 | Male | 12 | Single | 3 | 3 | 32973 | 85 |
| 4 | KP281 | 20 | Male | 13 | Partnered | 4 | 2 | 35247 | 47 |

```
#shape of the data
df.shape
```

```
(180, 9)
```

```
#size of the data
df.size
```

```
1620
```

```
#info of the data
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 180 entries, 0 to 179
Data columns (total 9 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Product         180 non-null    object
1   Age             180 non-null    int64
2   Gender          180 non-null    object
3   Education       180 non-null    int64
4   MaritalStatus   180 non-null    object
5   Usage           180 non-null    int64
6   Fitness         180 non-null    int64
7   Income          180 non-null    int64
8   Miles           180 non-null    int64
dtypes: int64(6), object(3)
memory usage: 12.8+ KB
```

```
#statistical summary
df.describe()
```

| | Age | Education | Usage | Fitness | Income | Miles |
|-------|------------|------------|------------|------------|---------------|------------|
| count | 180.000000 | 180.000000 | 180.000000 | 180.000000 | 180.000000 | 180.000000 |
| mean | 28.788889 | 15.572222 | 3.455556 | 3.311111 | 53719.577778 | 103.194444 |
| std | 6.943498 | 1.617055 | 1.084797 | 0.958869 | 16506.684226 | 51.863605 |
| min | 18.000000 | 12.000000 | 2.000000 | 1.000000 | 29562.000000 | 21.000000 |
| 25% | 24.000000 | 14.000000 | 3.000000 | 3.000000 | 44058.750000 | 66.000000 |
| 50% | 26.000000 | 16.000000 | 3.000000 | 3.000000 | 50596.500000 | 94.000000 |
| 75% | 33.000000 | 16.000000 | 4.000000 | 4.000000 | 58668.000000 | 114.750000 |
| max | 50.000000 | 21.000000 | 7.000000 | 5.000000 | 104581.000000 | 360.000000 |

```
#data types:
df.dtypes
```

```
Product         object
Age             int64
Gender          object
Education       int64
MaritalStatus   object
Usage           int64
Fitness         int64
Income          int64
Miles           int64
dtype: object
```

```
#Coverting into categorical data:
```

```
Categories = ['Product', 'Gender', 'MaritalStatus']
df_categories= df[Categories].astype('category')
df_categories.dtypes
```

```
Product         category
Gender          category
MaritalStatus   category
dtype: object
```

```
# Chcking the NULL value:
df.isna().sum()
```

```
Product         0
Age             0
Gender          0
Education       0
MaritalStatus   0
Usage           0
Fitness         0
Income          0
```

```
Miles      0
dtype: int64
```

```
# Probability of the Genders with respect to the Products:
```

```
round(df.groupby('Product')['Gender'].value_counts(normalize = True)*100,2)
```

```
Product  Gender
KP281    Female    50.00
         Male     50.00
KP481    Male     51.67
         Female    48.33
KP781    Male     82.50
         Female    17.50
Name: Gender, dtype: float64
```

```
# Probability of the MaritalStatus with respect to the Products:
```

```
df.groupby('Product')['MaritalStatus'].value_counts(normalize = True)*100
```

```
Product  MaritalStatus
KP281    Partnered     60.0
         Single       40.0
KP481    Partnered     60.0
         Single       40.0
KP781    Partnered     57.5
         Single       42.5
Name: MaritalStatus, dtype: float64
```

```
# Probability of customers have purchased KP281, KP481, or KP781:
```

```
marginal_prob_table = pd.crosstab(index=df['Product'], columns='Count', normalize=True)* 100
round(marginal_prob_table,2)
```

| col_0 | Count |
|---------|-------|
| Product | |
| KP281 | 44.44 |
| KP481 | 33.33 |
| KP781 | 22.22 |

```
# 2) Non-Graphical Analysis: Value counts and unique attributes
```

```
df.head()
```

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 |
| 2 | KP281 | 19 | Female | 14 | Partnered | 4 | 3 | 30699 | 66 |
| 3 | KP281 | 19 | Male | 12 | Single | 3 | 3 | 32973 | 85 |
| 4 | KP281 | 20 | Male | 13 | Partnered | 4 | 2 | 35247 | 47 |

```
# Probability of customers have purchased KP281, KP481, or KP781:
```

```
a = round(df['Product'].value_counts(normalize = True),2)*100
b = df['Product'].nunique()
```

```
Total_product_counts:
```

```
KP281    44.0
KP481    33.0
KP781    22.0
Name: Product, dtype: float64
```

```
unique_products = 3
```

```
# Probability of Genders of customers have purchased KP281, KP481, or KP781:
```

```
a = round(df.groupby('Product')['Gender'].value_counts(normalize = True),2)*100
b = df['Gender'].nunique()
```

```
print('Total_Gender_counts:\n\n',a)
print('\nunique_Gender =', b)
```

```
Total_Gender_counts:
```

| Product | Gender | |
|---------|--------|------|
| KP281 | Female | 50.0 |
| | Male | 50.0 |
| KP481 | Male | 52.0 |
| | Female | 48.0 |
| KP781 | Male | 82.0 |
| | Female | 18.0 |

Name: Gender, dtype: float64

```
unique_Gender = 2
```

```
# Probability of MaritalStatus of customers have purchased KP281, KP481, or KP781:
```

```
a = df.groupby('Product')['MaritalStatus'].value_counts(normalize = True)*100
b = df['MaritalStatus'].nunique()
```

```
print('Total_MaritalStatus_counts:\n\n',a)
print('\nunique_MaritalStatus =', b)
```

```
Total_MaritalStatus_counts:
```

| Product | MaritalStatus | |
|---------|---------------|------|
| KP281 | Partnered | 60.0 |
| | Single | 40.0 |
| KP481 | Partnered | 60.0 |
| | Single | 40.0 |
| KP781 | Partnered | 57.5 |
| | Single | 42.5 |

Name: MaritalStatus, dtype: float64

```
unique_MaritalStatus = 2
```

```
# Probability of Education of customers have purchased KP281, KP481, or KP781:
```

```
a = round(df.groupby('Product')['Education'].value_counts(normalize = True),2)*100
b = df['Education'].nunique()
```

```
print('Total_Education_counts:\n\n',a)
print('\nunique_Education =', b)
```

```
Total_Education_counts:
```

| Product | Education | |
|---------|-----------|------|
| KP281 | 16 | 49.0 |
| | 14 | 38.0 |
| | 15 | 5.0 |
| | 13 | 4.0 |
| | 12 | 2.0 |
| | 18 | 2.0 |
| KP481 | 16 | 52.0 |
| | 14 | 38.0 |
| | 13 | 3.0 |
| | 18 | 3.0 |
| | 12 | 2.0 |
| | 15 | 2.0 |
| KP781 | 18 | 48.0 |
| | 16 | 38.0 |
| | 21 | 8.0 |
| | 14 | 5.0 |
| | 20 | 2.0 |

Name: Education, dtype: float64

```
unique_Education = 8
```

```
# Probability of Income of customers have purchased KP281, KP481, or KP781:
```

```
a = df.groupby('Product')['Income'].value_counts(normalize = True)*100
b = df['Income'].nunique()
```

```
print('Total_Income_counts:\n\n',a)
print('\nunique_Income =', b)
```

```
Total_Income_counts:
```

| Product | Income |
|---------|--------|
|---------|--------|

```

KP281    46617    8.75
         54576    8.75
         52302    7.50
         35247    6.25
         45480    6.25
         ...
KP781    85906    2.50
         95508    2.50
         95866    2.50
         99601    2.50
         103336   2.50
Name: Income, Length: 83, dtype: float64

unique_Income = 62

```

3) Visual Analysis - Univariate & Bivariate

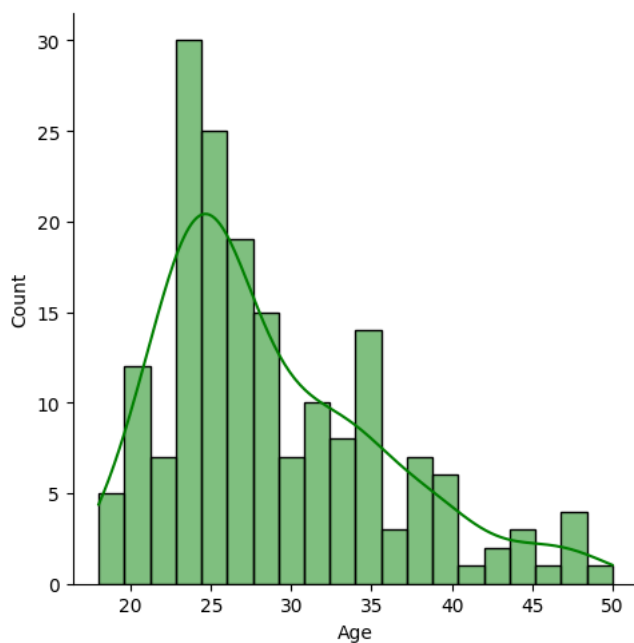
- For continuous variable(s): Distplot, countplot, histogram for univariate analysis
- For categorical variable(s): Boxplot
- For correlation: Heatmaps, Pairplots

```
df.head()
```

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 |
| 2 | KP281 | 19 | Female | 14 | Partnered | 4 | 3 | 30699 | 66 |
| 3 | KP281 | 19 | Male | 12 | Single | 3 | 3 | 32973 | 85 |
| 4 | KP281 | 20 | Male | 13 | Partnered | 4 | 2 | 35247 | 47 |

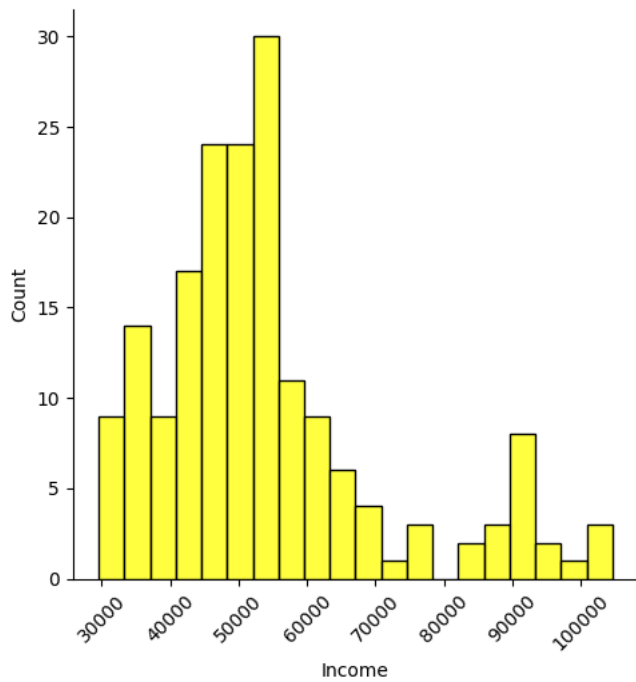
```
# Age Distributional Count:
```

```
sns.displot(data =df,x='Age',kde =True,bins = 20,color = 'green')
plt.show()
```



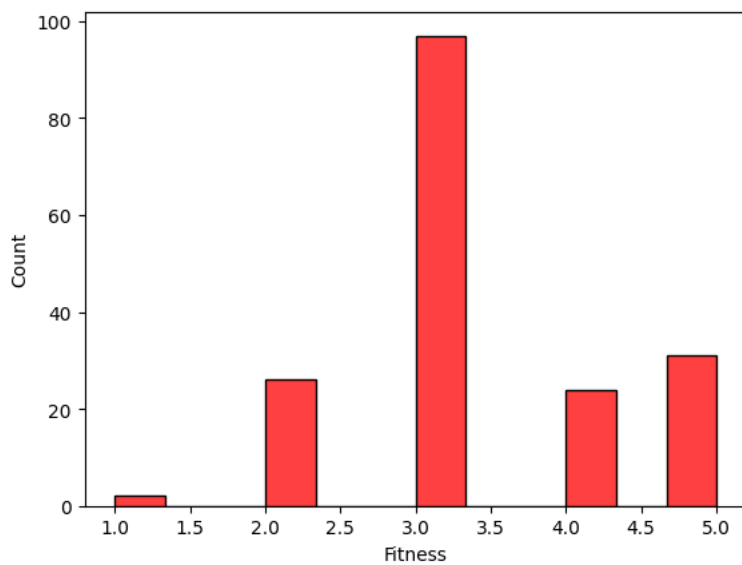
```
# Income Distributional Count:
```

```
sns.displot(data =df,x='Income',bins = 20,color = 'yellow')
plt.xticks(rotation = 45)
plt.show()
```



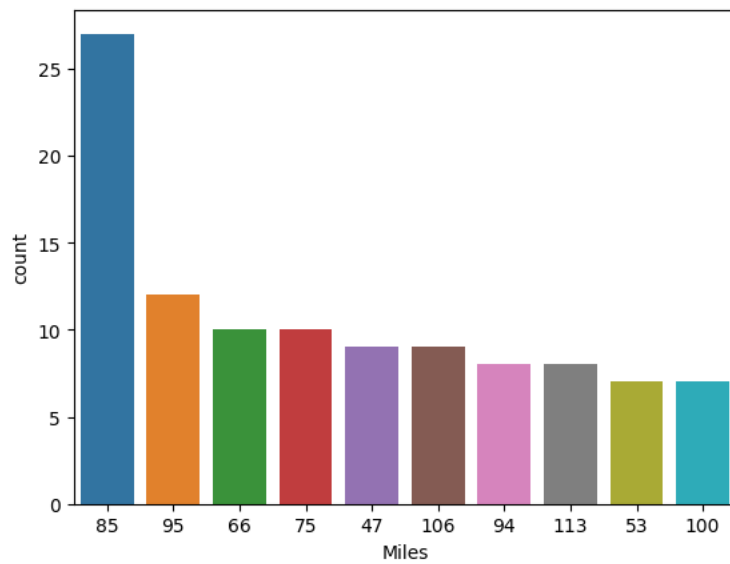
Fitness Distributional Count:

```
sns.histplot(data =df,x='Fitness',color = 'red')
plt.show()
```



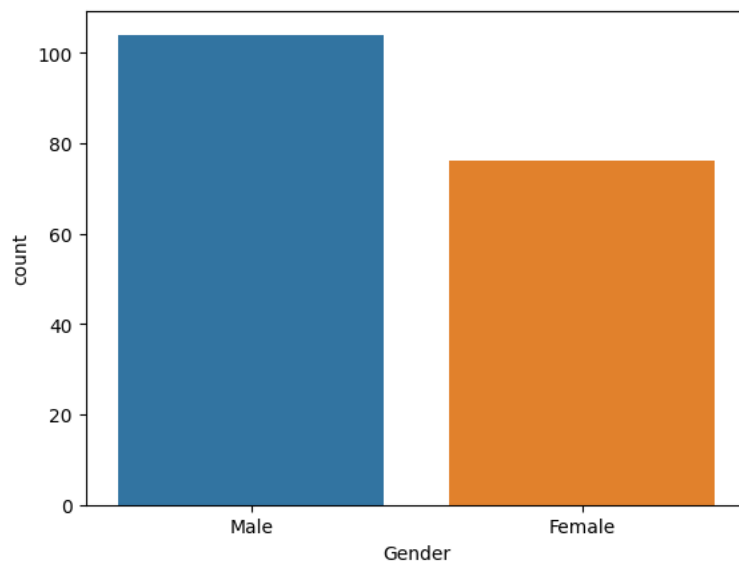
Miles Distributional Count:

```
sns.countplot(data =df,x='Miles',order = df['Miles'].value_counts().index[:10])
plt.show()
```



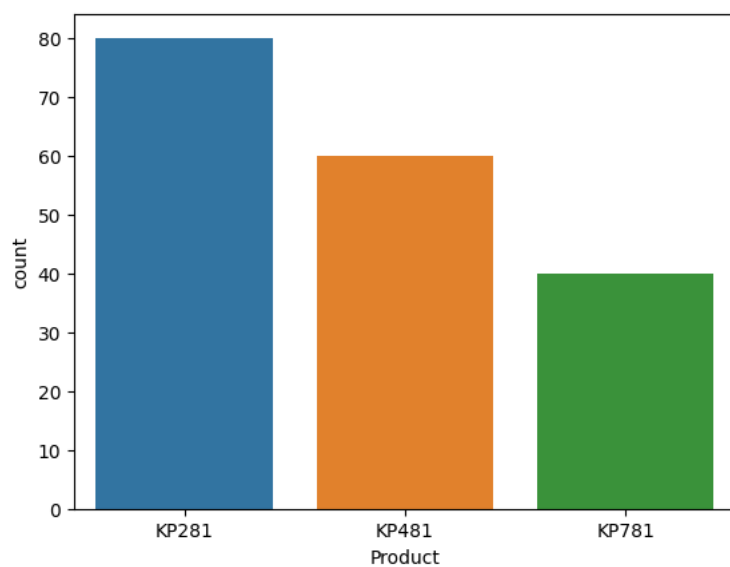
Gender Distributional Count:

```
sns.countplot(data =df,x='Gender')  
plt.show()
```



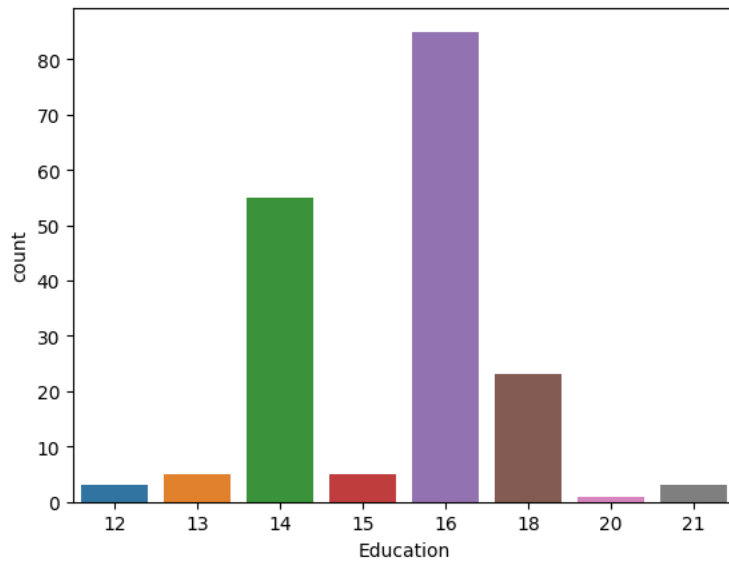
Products Distributional Count:

```
sns.countplot(data =df,x='Product')  
plt.show()
```



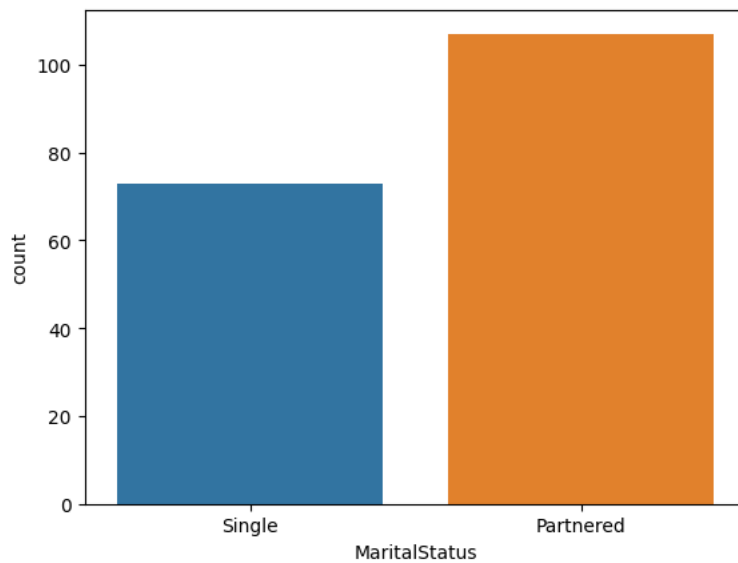
Education Distributional Count:

```
sns.countplot(data =df,x='Education')
plt.show()
```



MaritalStatus Distributional Count:

```
sns.countplot(data =df,x='MaritalStatus')
plt.show()
```

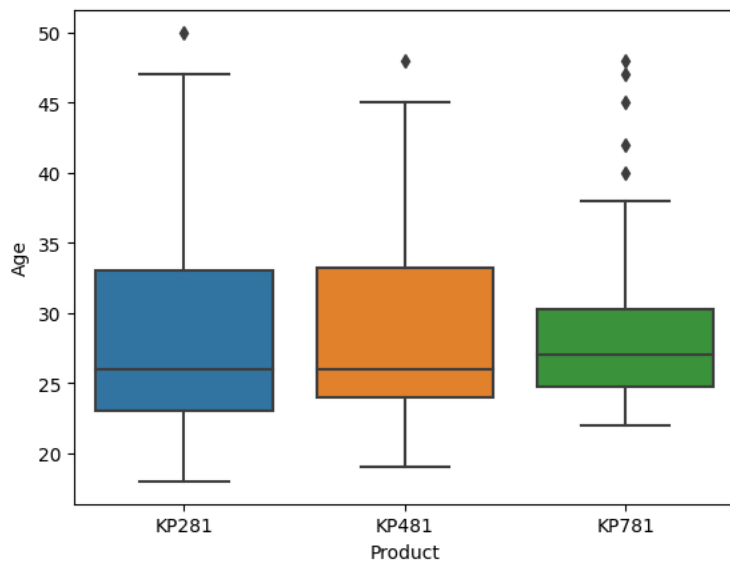


df.head(3)

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles | |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|--|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 | |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 | |
| 2 | KP281 | 18 | Female | 14 | Partnered | 4 | 3 | 30600 | 66 | |

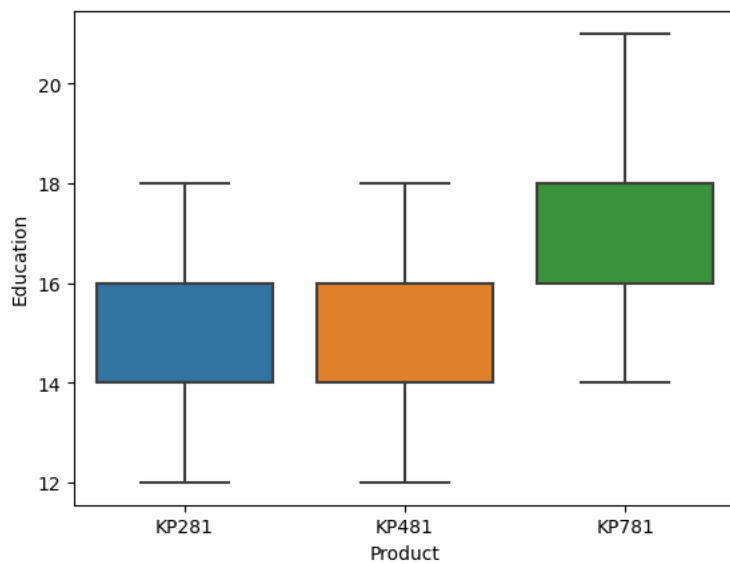
Product distribution with respect to the Customer's Age:

```
sns.boxplot(data=df,x='Product',y='Age')
plt.show()
```

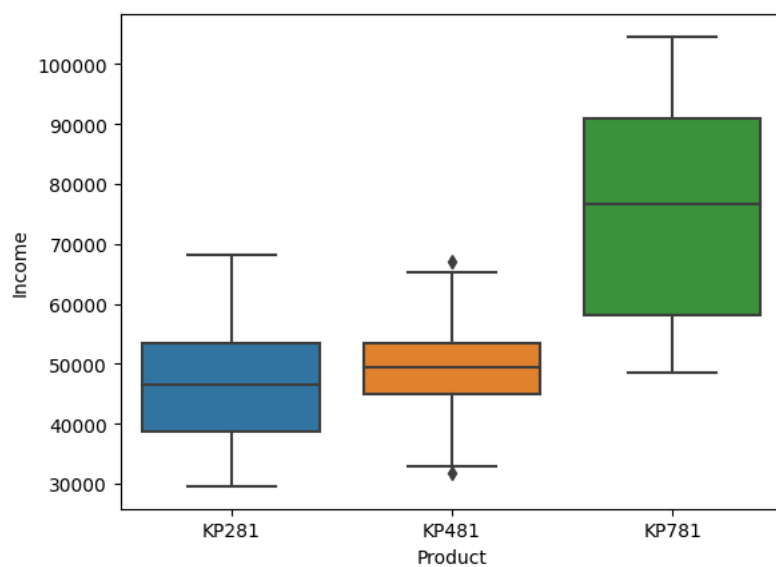
Product distribution with respect to the Customer's Education:

```
sns.boxplot(data=df, x='Product', y='Education')  
plt.show()
```



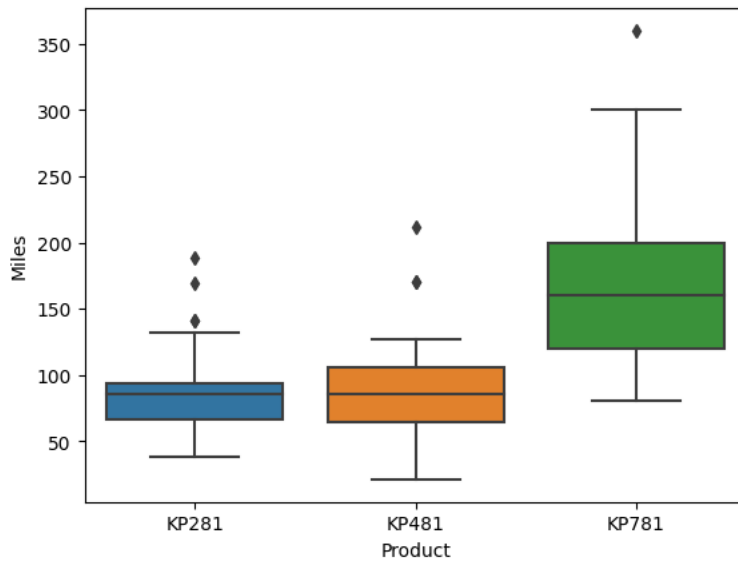
Product distribution with respect to the Customer's Income:

```
sns.boxplot(data=df, x='Product', y='Income')  
plt.show()
```



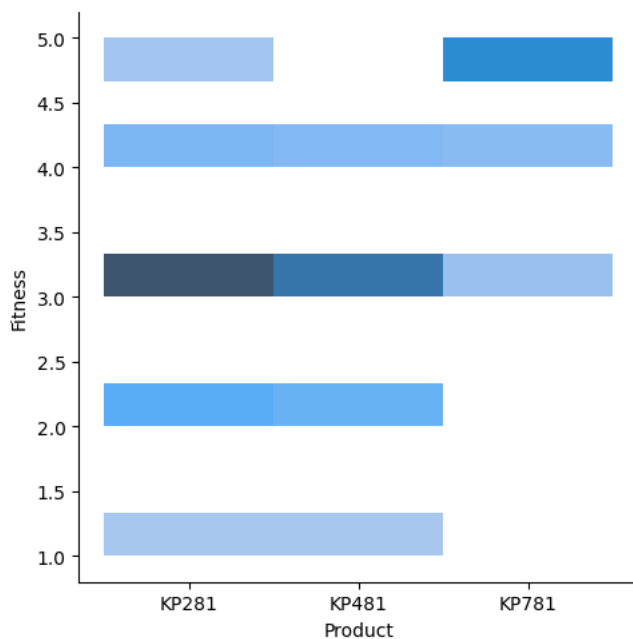
Product distribution with respect to the Customer's Miles:

```
sns.boxplot(data=df,x='Product',y='Miles')
plt.show()
```



Product distribution with respect to the Customer's Fitness:

```
sns.displot(data=df,x='Product',y='Fitness')
plt.show()
```

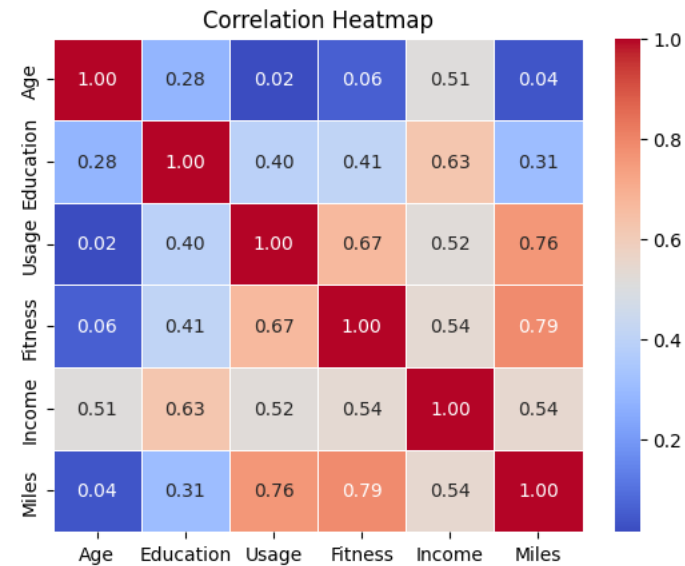


Correlation by using HeatMap:

```
correlation_matrix = df.corr()

sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f", linewidths=0.5)
plt.title('Correlation Heatmap')
plt.show()
```

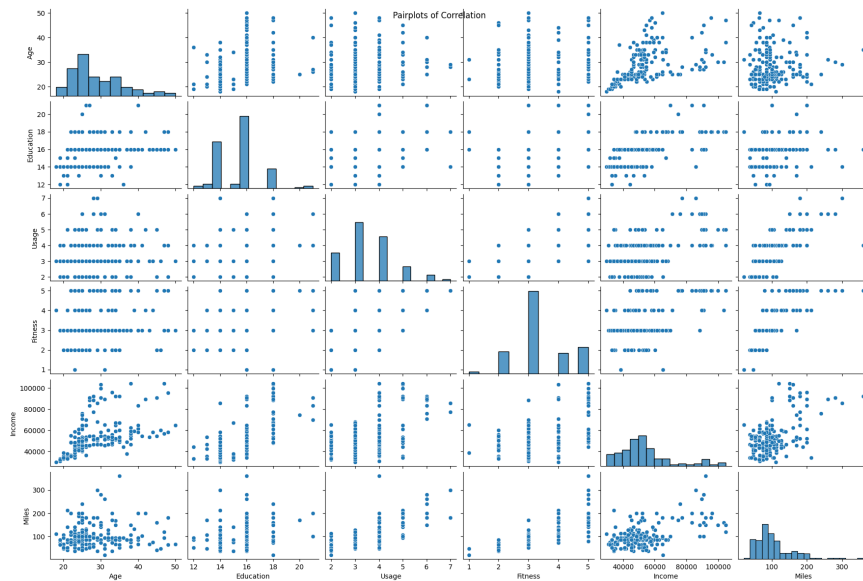
```
<ipython-input-122-54dcbbd3e82c>:1: FutureWarning: The default value of numeric_only
correlation_matrix = df.corr()
```



```
# Correlation by using Pairplot:
```

```
sns.pairplot(df, height=2, aspect = 1.5)
plt.suptitle('Pairplots of Correlation')
```

```
plt.show()
```



4) Missing Value & Outlier Detection:

Missing Values from the given data:

```
Missing_value = df.isna().sum()
Missing_value
```

```
Product      0
Age           0
Gender        0
Education     0
MaritalStatus 0
Usage         0
Fitness       0
Income        0
Miles         0
dtype: int64
```

Outlier Detection for the dataset:

```
Q3 = np.percentile(df[['Age','Usage','Fitness','Income','Miles']],75)
Q1 = np.percentile(df[['Age','Usage','Fitness','Income','Miles']],25)
```

```
IQR = Q3 - Q1
print('IQR =',IQR)
```

```
Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)
```

```
IQR = 111.75
Upper = 282.375
Lower = -164.625
```

Outlier Detection for the Age in the dataset:

```
Q3 = np.percentile(df['Age'],75)
Q1 = np.percentile(df['Age'],25)
```

```
IQR = Q3 - Q1
print('IQR =',IQR)
```

```
Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)
```

```
IQR = 9.0
Upper = 46.5
Lower = 10.5
```

Outlier Detection for the Usage in the dataset:

```
Q3 = np.percentile(df['Usage'],75)
Q1 = np.percentile(df['Usage'],25)
```

```
IQR = Q3 - Q1
print('IQR =',IQR)
```

```
Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)
```

```
IQR = 1.0
Upper = 5.5
Lower = 1.5
```

```
# Outlier Detection for the Fitness in the dataset:
```

```
Q3 = np.percentile(df['Fitness'],75)
Q1 = np.percentile(df['Fitness'],25)

IQR = Q3 - Q1
print('IQR =',IQR)

Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)

IQR = 1.0
Upper = 5.5
Lower = 1.5
```

```
# Outlier Detection for the Income in the dataset:
```

```
Q3 = np.percentile(df['Income'],75)
Q1 = np.percentile(df['Income'],25)

IQR = Q3 - Q1
print('IQR =',IQR)

Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)

IQR = 14609.25
Upper = 80581.875
Lower = 22144.875
```

```
# Outlier Detection for the Miles in the dataset:
```

```
Q3 = np.percentile(df['Miles'],75)
Q1 = np.percentile(df['Miles'],25)

IQR = Q3 - Q1
print('IQR =',IQR)

Upper = Q3 + 1.5*IQR
Lower = Q1 - 1.5*IQR
print('Upper =',Upper)
print('Lower =',Lower)

IQR = 48.75
Upper = 187.875
Lower = -7.125
```

```
# Conditional Probability:
```

```
df.head()
```

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles | |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|--|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 | |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 | |
| 2 | KP281 | 19 | Female | 14 | Partnered | 4 | 3 | 30699 | 66 | |
| 3 | KP281 | 19 | Male | 12 | Single | 3 | 3 | 32973 | 85 | |
| 4 | KP281 | 20 | Male | 13 | Partnered | 4 | 2 | 35247 | 17 | |

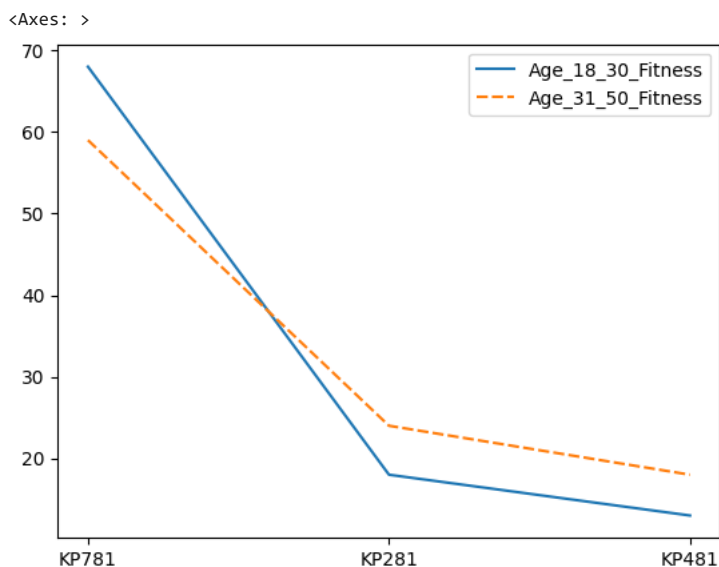
```
# Probability of the Age and the Fitness of the customers purchased the products:
```

```
Age_18_30_Fitness = df[(df['Age'] >=18) & (df['Age']<=30) & (df['Fitness']>=4)]['Product'].value_counts(normalize = True)*100
Age_31_50_Fitness = df[(df['Age'] >=31) & (df['Age']<=50) & (df['Fitness']>=4)]['Product'].value_counts(normalize = True)*100

data = pd.DataFrame({'Age_18_30_Fitness':round(df[(df['Age'] >=18) & (df['Age']<=30) & (df['Fitness']>=4)]['Product'].value_counts(normalize = True)*100,2),
                    'Age_31_50_Fitness':round(df[(df['Age'] >=31) & (df['Age']<=50) & (df['Fitness']>=4)]['Product'].value_counts(normalize = True)*100,2)})
```

| | Age_18_30_Fitness | Age_31_50_Fitness | |
|-------|-------------------|-------------------|--|
| KP781 | 68.0 | 59.0 | |
| KP281 | 18.0 | 24.0 | |
| KP481 | 13.0 | 18.0 | |

```
sns.lineplot(data)
```



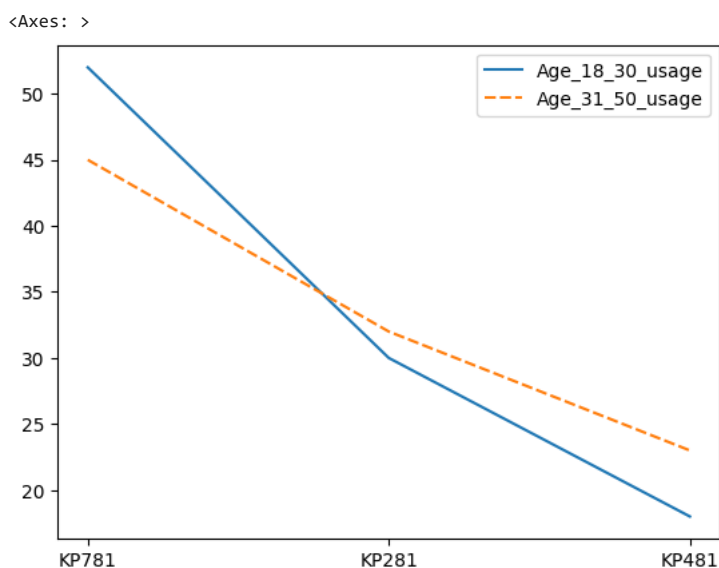
Probability of the Age and the Usage of the customers purchased the products:

```
Age_18_30_usage = round(df[(df['Age'] >=18) & (df['Age']<=30) & (df['Usage']>= 4)]['Product'].value_counts(normalize = True),2)*100
Age_31_50_usage = round(df[(df['Age'] >=31) & (df['Age']<=50) & (df['Usage']>= 4)]['Product'].value_counts(normalize = True),2)*100
```

```
data = pd.DataFrame({'Age_18_30_usage': round(df[(df['Age'] >=18) & (df['Age']<=30) & (df['Usage']>= 4)]['Product'].value_counts(normalize = True),2)*100,
                    'Age_31_50_usage': round(df[(df['Age'] >=31) & (df['Age']<=50) & (df['Usage']>= 4)]['Product'].value_counts(normalize = True),2)*100})
```

| | Age_18_30_usage | Age_31_50_usage | |
|-------|-----------------|-----------------|--|
| KP781 | 52.0 | 45.0 | |
| KP281 | 30.0 | 32.0 | |
| KP481 | 18.0 | 23.0 | |

```
sns.lineplot(data)
```

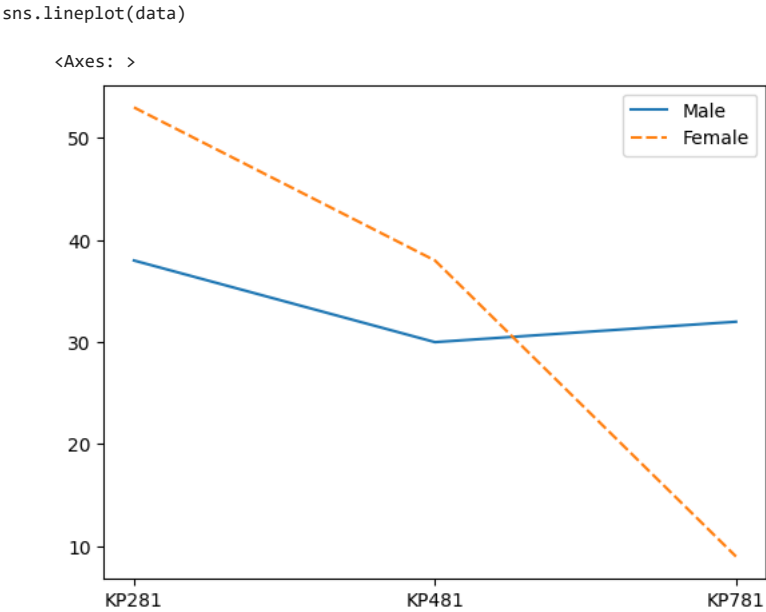


```
# Probability of Genders of the customers purchased the products:

Male = df[df['Gender'] == 'Male']['Product'].value_counts(normalize = True)*100
Female = df[df['Gender'] == 'Female']['Product'].value_counts(normalize = True)*100

data = pd.DataFrame({'Male': round(df[df['Gender'] == 'Male']['Product'].value_counts(normalize = True),2)*100, 'Female' : round(df[df[
```

| | Male | Female | |
|-------|------|--------|--|
| KP281 | 38.0 | 53.0 | |
| KP481 | 30.0 | 38.0 | |
| KP781 | 32.0 | 9.0 | |



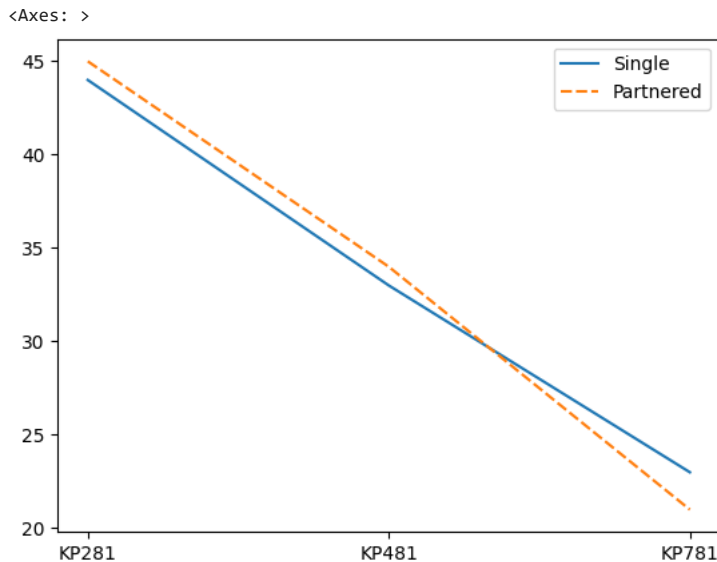
```
# Probability of MaritalStatus of the customers purchased the products:

Single = df[df['MaritalStatus'] == 'Single']['Product'].value_counts(normalize = True)*100
Partnered = df[df['MaritalStatus'] == 'Partnered']['Product'].value_counts(normalize = True)*100

data = pd.DataFrame({'Single': round(df[df['MaritalStatus'] == 'Single']['Product'].value_counts(normalize = True),2)*100, 'Partnered'
```

| | Single | Partnered | |
|-------|--------|-----------|--|
| KP281 | 44.0 | 45.0 | |
| KP481 | 33.0 | 34.0 | |
| KP781 | 23.0 | 21.0 | |

sns.lineplot(data)



```
df.head(3)
```

| | Product | Age | Gender | Education | MaritalStatus | Usage | Fitness | Income | Miles |
|---|---------|-----|--------|-----------|---------------|-------|---------|--------|-------|
| 0 | KP281 | 18 | Male | 14 | Single | 3 | 4 | 29562 | 112 |
| 1 | KP281 | 19 | Male | 15 | Single | 2 | 3 | 31836 | 75 |
| 2 | KP281 | 18 | Female | 14 | Partnered | 4 | 3 | 30600 | 66 |

Business Insights based on Non-Graphical and Visual Analysis :

1) Range of Attributes:

Product Purchased: All three products (KP281, KP481, KP781) are **represented** in the dataset, indicating a diverse range of offerings.

Age: The age range provides the understanding to find the target age group to the selective products.

Gender: Understanding the gender distribution helps to promote the various products cater to the preferences of different genders.

Education: The range of education years gives an indication of the educational background of the customer base.

MaritalStatus: The distribution between Single and Partnered customers can impact marketing messages and product features.

2) Distribution of the variables and relationship between them:

Usage: The distribution of usage patterns helps in understanding how frequently customers using the product in a week, influencing marketing and product development.

Income: Understanding income distribution provides insights into the purchasing capacity of the customer base, affecting pricing and promotional strategies.

Fitness: The distribution of self-rated fitness levels helps in identifying the fitness-conscious segment of customers.

Miles: Understanding the expected miles reveals the intensity of expected product usage, guiding product design and feature decisions.

3) Univariate Plots:

Age Distributional Count:

- The age categories of the customer starts from 18 and ends with 50.
- In the overall the Highest average age is between the 24 and 26.

Income Distributional Count:

- The Income of the Customer purchased the products are starts from the min 30000 and ends with the max more than 1lakh.
- The Highest Count of Customers Income who purchased the products where income in between 50k to 60k.

Fitness Distributional Count:

- The Highest number of Customer purchased the products having the fitness ratings of 3 to 3.5.
- This helps the marketing team to promote more and create the needs and demands to the average fitness customers.

Miles Distributional Count:

- The Highest number of Customer purchased the products having the expected miles of 85 per week.
- This indicates to promote the products to the other customers.

MaritalStatus Distributional Count:

- In the purchased customer list, Partnered status is seems to higher when compared to the Single.
- This would help the marketing team to promote more to the Partnered when compared to the Single.

Bivariate Plots:**Product distribution with respect to the Customer's Age:**

- The average age category for Aerofit products falls within the range of 25 to 27.
- The distribution of KP281 appears to be higher compared to the other two products.
- This suggests that KP781 attracts customers starting from the age of 23. For customers below this age, the marketing team should focus on promoting KP281 and KP481.

Product distribution with respect to the Customer's Education:

- KP281 and KP481 have educational counts ranging from 14 to 16.
- KP781 attracts customers with a good educational background.

Product distribution with respect to the Customer's Income:

- KP781 attracts customers with incomes crossing 70k, which is higher compared to the average incomes of the other two products, ranging between 45k to 50k.