1.Defining Problem Statement and Analysing basic metrics. (10 Points)

Observations on shape of data, data types of all the attributes, conversion of categorical attributes to 'category' (If required), statistical summary.

What is Aerofit?

Aerofit, a dynamic player in the fitness industry, traces its origins to M/s. Sachdev Sports Co, established in 1928 by Ram Ratan Sachdev. From its modest beginnings in Hyderabad, India, the company evolved into a leading sports equipment supplier across Andhra Pradesh and Telangana. Recognizing the growing need for fitness solutions, M/s. Sachdev Overseas emerged to import quality fitness equipment under the "Aerofit" brand, ensuring affordability and post-sales excellence. Driven by a dedication to innovation, Nityasach Fitness Pvt Ltd was founded, spearheaded by director Nityesh Sachdev. With the brand "Aerofit" at its core, the company aimed to bridge the gap between international fitness technology and the Indian market. By importing advanced fitness equipment at accessible price points, Aerofit sought to redefine the industry landscape, prioritizing health and vitality while staying true to its legacy of passion and customer focus. Aerofit provides a product range including machines such as treadmills, exercise bikes, gym equipment, and fitness accessories to cater to the needs of all categories of people.

© Objective

Create comprehensive customer profiles for each AeroFit treadmill product through descriptive analytics. Develop two-way contingency tables and analyze conditional and marginal probabilities to discern customer characteristics, facilitating improved product recommendations and informed business decisions.

About Data

The company collected the data on individuals who

purchased a treadmill from the AeroFit stores during three months. The data is available in a single csv file Product Portfolio.

- The KP281 is an entry-level treadmill that sells for USD 1,500.
- The KP481 is for mid-level runners that sell for USD 1,750.
- The KP781 treadmill is having advanced features that sell for USD 2,500.

```
In []: import numpy as np
    import pandas as pd
    import matplotlib.pyplot as plt
    import seaborn as sns
    import warnings
    warnings.filterwarnings('ignore')
    import copy

In []: df = pd.read_csv('aerofit_treadmill.csv')

In []: df.head()

Out[]: Product Age Gender Education MaritalStatus Usage Fitness Income Miles
```

t[]:		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

In []: df.tail()

Out[]:		Product	Age	Gender	Education	MaritalStatus	Usage	Fitness	Income	Miles
	175	KP781	40	Male	21	Single	6	5	83416	200
	176	KP781	42	Male	18	Single	5	4	89641	200
	177	KP781	45	Male	16	Single	5	5	90886	160
	178	KP781	47	Male	18	Partnered	4	5	104581	120
	179	KP781	48	Male	18	Partnered	4	5	95508	180

```
In [ ]: df.shape
Out[]: (180, 9)
In [ ]: 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
```

8 Miles dtypes: int64(6), object(3) memory usage: 12.8+ KB

2. Non-Graphical Analysis: Value counts and unique attributes. (10 Points)

Categorical Variables

180 non-null int64

Product

Unique Values: 3 (KP281, KP481, KP781)

Value Counts:

KP281: 80 customers (44.4%)

KP481: 60 customers (33.3%)

KP781: 40 customers (22.2%)

Gender

Unique Values: 2 (Male, Female)

Value Counts:

Male: 104 customers (57.8%)

Female: 76 customers (42.2%)

Marital Status

Unique Values: 2 (Single, Partnered)

Value Counts:

Partnered: 107 customers (59.4%)

Single: 73 customers (40.6%)

Numerical Variables

Age

Unique Values: 33

Range: 18–50 years

Mean: 28.8

Median: 26

Education

Unique Values: 8

Range: 12–21 years

Mean: 15.6

Usage

Unique Values: 6

Range: 2–7 times/week

Mean: 3.5

Fitness

Unique Values: 5

Range: 1–5 (Self-rated)

Mean: 3.3

Income

Unique Values: 180 (All values are unique)

Range: 29, 562–104,581

Mean: \$53,720

Miles

Unique Values: 83

Range: 21–360 miles/week

Mean: 103.2

```
In []: # Non-graphical analysis: Value counts for categorical variables
    categorical_columns = ['Product', 'Gender', 'MaritalStatus']

print("### Categorical Variables: Value Counts and Unique Attributes ###\n")
    for col in categorical_columns:
        print(f"Column: {col}")
        print(f"Unique Values: {df[col].nunique()}")
        print("Value Counts:")
        print(df[col].value_counts(), "\n")
```

```
### Categorical Variables: Value Counts and Unique Attributes ###
       Column: Product
       Unique Values: 3
       Value Counts:
       Product
       KP281
                80
       KP481
                60
       KP781
                40
       Name: count, dtype: int64
       Column: Gender
      Unique Values: 2
      Value Counts:
       Gender
       Male
                 104
       Female
                  76
       Name: count, dtype: int64
       Column: MaritalStatus
       Unique Values: 2
      Value Counts:
       MaritalStatus
       Partnered
       Single
                    73
       Name: count, dtype: int64
In [ ]: # Unique values and summary for numerical columns
        numerical_columns = ['Age', 'Education', 'Usage', 'Fitness', 'Income', 'Miles']
        print("### Numerical Variables: Unique Attributes and Summary Statistics ###\n")
        for col in numerical_columns:
            print(f"Column: {col}")
            print(f"Unique Values: {df[col].nunique()}")
```

print(f"Summary Statistics:\n{df[col].describe()}\n")

```
### Numerical Variables: Unique Attributes and Summary Statistics ###
```

```
Column: Age
Unique Values: 32
Summary Statistics:
         180.000000
mean
          28.788889
           6.943498
std
min
          18.000000
25%
          24.000000
50%
          26.000000
75%
          33.000000
          50.000000
max
Name: Age, dtype: float64
Column: Education
Unique Values: 8
Summary Statistics:
         180.000000
          15.572222
mean
           1.617055
std
min
          12.000000
25%
          14.000000
50%
          16.000000
75%
          16.000000
          21.000000
max
Name: Education, dtype: float64
Column: Usage
Unique Values: 6
Summary Statistics:
count
         180.000000
mean
           3.455556
std
           1.084797
min
           2.000000
25%
           3.000000
50%
           3.000000
75%
           4.000000
           7.000000
Name: Usage, dtype: float64
Column: Fitness
Unique Values: 5
Summary Statistics:
         180.000000
count
mean
           3.311111
std
           0.958869
           1.000000
min
           3.000000
25%
50%
           3.000000
75%
           4.000000
           5.000000
Name: Fitness, dtype: float64
Column: Income
Unique Values: 62
Summary Statistics:
count
            180.000000
mean
          53719.577778
std
          16506.684226
min
          29562.000000
25%
          44058.750000
50%
          50596.500000
75%
          58668.000000
         104581.000000
Name: Income, dtype: float64
Column: Miles
Unique Values: 37
Summary Statistics:
         180.000000
mean
         103.194444
std
         51.863605
min
          21.000000
25%
          66.000000
         94.000000
75%
         114.750000
max
         360.000000
Name: Miles, dtype: float64
```

3. Visual Analysis - Univariate & Bivariate. (30 Points)

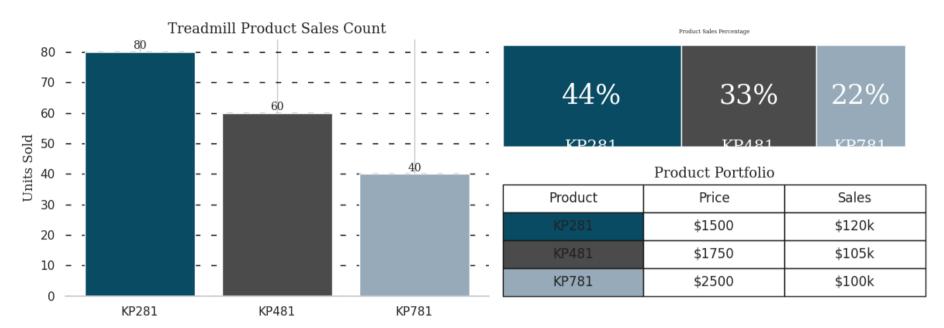
• For continuous variable(s): Distplot, countplot, histogram for univariate analysis (10 Points)

- For categorical variable(s): Boxplot (10 Points)
- For correlation: Heatmaps, Pairplots(10 Points)

Univariate Analysis

```
In [ ]: # Import libraries
        import matplotlib.pyplot as plt
        import seaborn as sns
        # Setting the plot style
        fig = plt.figure(figsize=(12, 5))
        gs = fig.add_gridspec(2, 2)
        ax0 = fig.add_subplot(gs[:, 0])
        # Counting product occurrences
        product_count = df['Product'].value_counts()
        color_map = ["#0e4f66", "#4b4b4c", '#99AEBB']
        # Creating the bar plot
        ax0.bar(product_count.index, product_count.values, color=color_map, zorder=2)
        # Adding value counts to the bars
        for i in range(len(product_count)):
            ax0.text(i, product_count.values[i] + 2, f"{product_count.values[i]}",
                    {'font': 'serif', 'size': 10}, ha='center', va='center')
        # Adding grid lines
        ax0.grid(color='black', linestyle='--', axis='y', zorder=0, dashes=(5, 10))
        # Removing axis lines (cleaner visualization)
        for s in ['top', 'left', 'right']:
           ax0.spines[s].set_visible(False)
        # Adding Labels
        ax0.set_ylabel('Units Sold', fontfamily='serif', fontsize=12)
        ax0.set_title('Treadmill Product Sales Count', fontfamily='serif', fontsize=13)
        # ----- Plot 2: Product Sales % ----- #
        ax1 = fig.add_subplot(gs[0, 1])
        # Calculating product sales percentages
        product_count_percent = (product_count / df.shape[0] * 100).round(0)
        # Plotting a horizontal stacked bar
        ax1.barh(0, product_count_percent[0], color="#0e4f66")
        ax1.barh(0, product_count_percent[1], left=product_count_percent[0], color="#4b4b4c")
        ax1.barh(0, product_count_percent[2], left=product_count_percent[0] + product_count_percent[1], color="#99AEBB")
        # Adding percentage text to each bar
        info_percent = [
           product_count_percent[0] / 2,
            product_count_percent[0] + product_count_percent[1] / 2,
            product_count_percent[0] + product_count_percent[1] + product_count_percent[2] / 2
        ]
        for i in range(3):
            ax1.text(info_percent[i], 0, f"{product_count_percent[i]:.0f}%", va='center', ha='center',
                    fontsize=25, fontweight='light', fontfamily='serif', color='white')
            ax1.text(info_percent[i], -0.4, product_count.index[i], va='center', ha='center',
                    fontsize=15, fontweight='light', fontfamily='serif', color='white')
        # Removing axes
        ax1.axis('off')
        ax1.set_title('Product Sales Percentage', fontfamily='serif', fontsize=5)
        # ------ Plot 3: Product Portfolio Table ----- #
        ax2 = fig.add_subplot(gs[1, 1])
        # Creating table data
        product_portfolio = [['KP281', '$1500', '$120k'], ['KP481', '$1750', '$105k'], ['KP781', '$2500', '$100k']]
        color_2d = [['#0e4f66', '#FFFFFF', '#FFFFFF'], ['#4b4b4c', '#FFFFFF', '#FFFFFF'], ['#99AEBB', '#FFFFFF', '#FFFFFF']]
        # Creating the table
        table = ax2.table(cellText=product_portfolio, cellColours=color_2d, cellLoc='center',
                         colLabels=['Product', 'Price', 'Sales'], colLoc='center', bbox=[0, 0, 1, 1])
        table.auto_set_font_size(False)
        table.set_fontsize(12)
        # Removing axis lines
        ax2.axis('off')
        ax2.set_title('Product Portfolio', fontfamily='serif', fontsize=13)
```

Product Sales Distribution



Gender and Marital Status Disribution

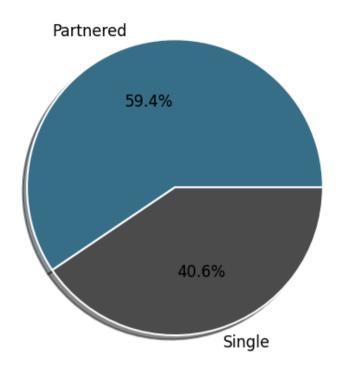
```
In [ ]: # Import required libraries
       import matplotlib.pyplot as plt
       # Setting the plot style
       fig = plt.figure(figsize=(12, 5))
       gs = fig.add_gridspec(1, 2)
       # ----- Gender Distribution Pie Chart ----- #
       ax0 = fig.add_subplot(gs[0, 0])
       color_map_gender = ["#3A7089", "#4b4b4c"] # Color palette
       # Pie chart for Gender
       ax0.pie(df['Gender'].value_counts().values,
               labels=df['Gender'].value_counts().index,
               autopct='%.1f%%',
               shadow=True,
               colors=color_map_gender,
               wedgeprops={'linewidth': 1.5, 'edgecolor': 'white'},
               textprops={'fontsize': 12, 'color': 'black'})
       # Title for Gender Distribution
       ax0.set_title('Gender Distribution', fontdict={'family': 'serif', 'size': 15, 'weight': 'bold'})
       ax1 = fig.add_subplot(gs[0, 1])
       color_map_marital = ["#3A7089", "#4b4b4c"] # Reusing the color palette for consistency
       # Pie chart for Marital Status
       ax1.pie(df['MaritalStatus'].value_counts().values,
               labels=df['MaritalStatus'].value_counts().index,
               autopct='%.1f%%',
               shadow=True,
               colors=color_map_marital,
               wedgeprops={'linewidth': 1.5, 'edgecolor': 'white'},
               textprops={'fontsize': 12, 'color': 'black'})
        # Title for Marital Status Distribution
       ax1.set_title('Marital Status Distribution', fontdict={'family': 'serif', 'size': 15, 'weight': 'bold'})
       # ----- Final Adjustments ----- #
       fig.suptitle('Categorical Attribute Distribution', fontfamily='serif', fontsize=16, weight='bold')
       plt.tight_layout()
       plt.show()
```

Categorical Attribute Distribution

Gender Distribution

57.8% 42.2%

Marital Status Distribution

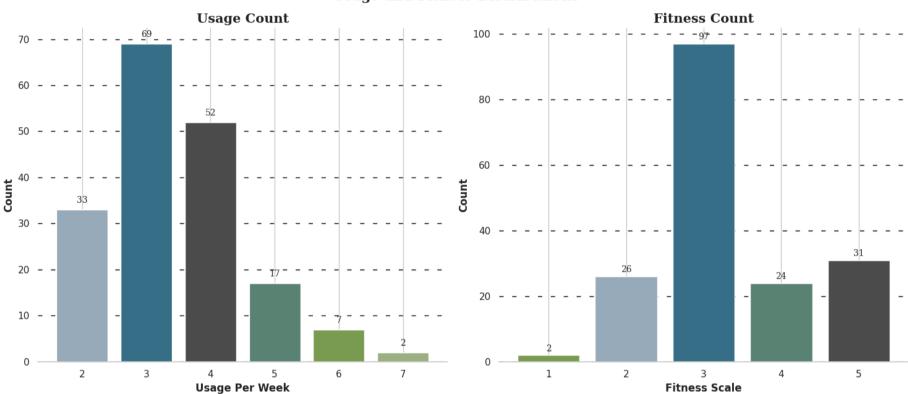


Buyer Fitness and Treadmill Usage

Female

```
In [ ]: # Importing libraries
        import matplotlib.pyplot as plt
        # Setting the plot style
        fig = plt.figure(figsize=(15, 10))
        gs = fig.add_gridspec(2, 2, height_ratios=[0.65, 0.35])
        ax0 = fig.add_subplot(gs[0, 0])
        # Compute counts and percentages
        usage_counts = df['Usage'].value_counts()
        usage_percent = (usage_counts / len(df) * 100).round(1)
        color_map = ["#3A7089", "#4b4b4c", '#99AEBB', '#5C8374', '#7A9D54', '#9EB384']
        # Bar plot
        ax0.bar(x=usage_counts.index, height=usage_counts.values, color=color_map, zorder=2)
        for i in usage_counts.index:
           ax0.text(i, usage_counts[i] + 2, usage_counts[i], ha='center', va='center', fontsize=10, fontfamily='serif')
        # Grid and style
        ax0.grid(color='black', linestyle='--', axis='y', zorder=0, dashes=(5, 10))
        for s in ['top', 'left', 'right']:
            ax0.spines[s].set_visible(False)
        ax0.set_title('Usage Count', fontdict={'family': 'serif', 'size': 15, 'weight': 'bold'})
        ax0.set_ylabel('Count', fontweight='bold', fontsize=12)
        ax0.set_xlabel('Usage Per Week', fontweight='bold', fontsize=12)
        # Table for Usage Info
        ax1 = fig.add_subplot(gs[1, 0])
        usage_table_data = list(zip(usage_counts.index, usage_percent.astype(str) + '%'))
        table = ax1.table(cellText=usage_table_data, colLabels=['Usage Per Week', 'Percent'], loc='center', cellLoc='center',
                         cellColours=[[color_map[i], '#FFFFFF'] for i in range(len(usage_counts))])
        table.auto_set_font_size(False)
        table.set_fontsize(13)
        ax1.axis('off')
        # ----- Fitness Distribution ----- #
        ax2 = fig.add_subplot(gs[0, 1])
        # Compute counts and percentages
        fitness_counts = df['Fitness'].value_counts()
        fitness_percent = (fitness_counts / len(df) * 100).round(1)
        # Bar plot
        ax2.bar(x=fitness_counts.index, height=fitness_counts.values, color=color_map, zorder=2)
        for i in fitness_counts.index:
            ax2.text(i, fitness_counts[i] + 2, fitness_counts[i], ha='center', va='center', fontsize=10, fontfamily='serif')
        # Grid and style
        ax2.grid(color='black', linestyle='--', axis='y', zorder=0, dashes=(5, 10))
        for s in ['top', 'left', 'right']:
            ax2.spines[s].set_visible(False)
```

Usage and Fitness Distributions



Usage Per Week	Percent
3	38.3%
4	28.9%
2	18.3%
5	9.4%
6	3.9%
7	1.1%

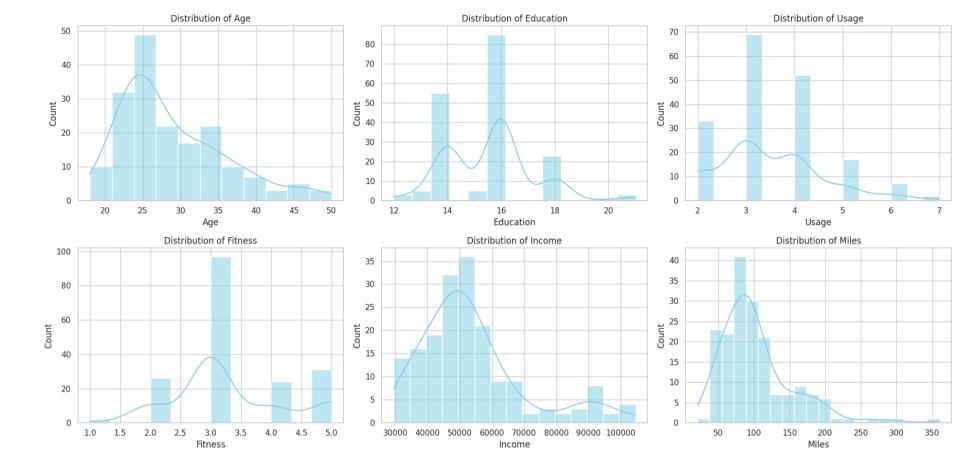
Fitness	Percent
3	53.9%
	17.2%
2	14.4%
4	13.3%
1	1.1%

```
In []: # ----- 1. Univariate Analysis -----
# Histograms for numerical columns
numerical_columns = ['Age', 'Education', 'Usage', 'Fitness', 'Income', 'Miles']
fig, axes = plt.subplots(2, 3, figsize=(18, 10))
fig.suptitle("Univariate Analysis: Histograms for Numerical Variables", fontsize=16)

for i, col in enumerate(numerical_columns):
    sns.histplot(df[col], kde=True, ax=axes[i//3, i%3], color="skyblue")
    axes[i//3, i%3].set_title(f"Distribution of {col}")

plt.tight_layout(rect=[0, 0.03, 1, 0.95])
plt.show()
```

Univariate Analysis: Histograms for Numerical Variables

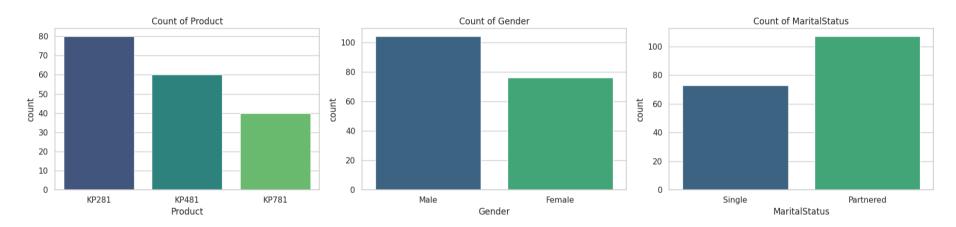


```
In []: # Countplot for categorical variables
    categorical_columns = ['Product', 'Gender', 'MaritalStatus']
    fig, axes = plt.subplots(1, 3, figsize=(18, 5))
    fig.suptitle("Univariate Analysis: Count Plots for Categorical Variables", fontsize=16)

for i, col in enumerate(categorical_columns):
        sns.countplot(data=df, x=col, ax=axes[i], palette="viridis")
        axes[i].set_title(f"Count of {col}")

plt.tight_layout(rect=[0, 0.03, 1, 0.95])
    plt.show()
```

Univariate Analysis: Count Plots for Categorical Variables



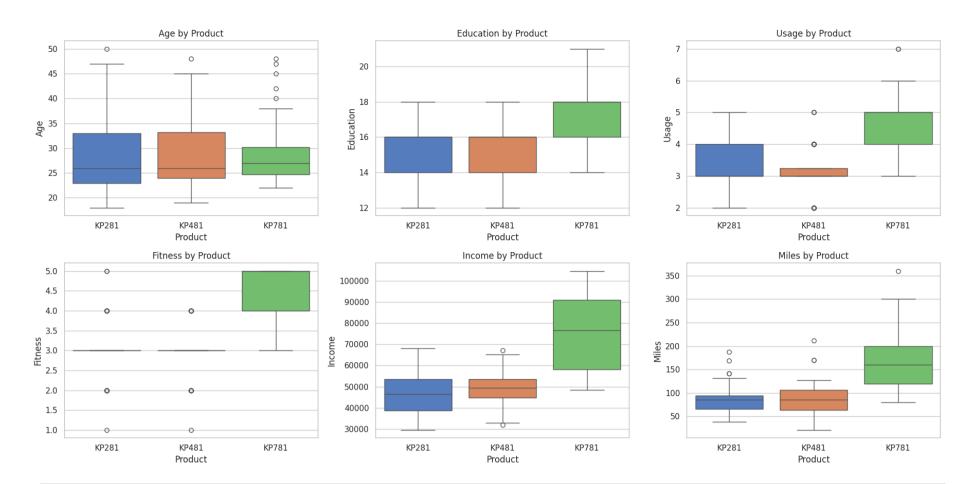
Bivariate Analysis

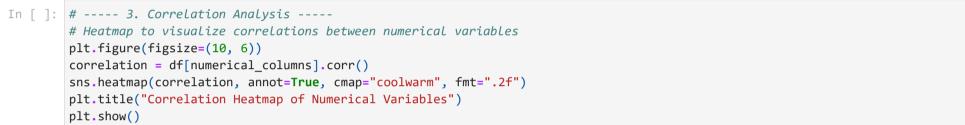
```
In []: # ---- 2. Bivariate Analysis ----
# Boxplots for numerical variables grouped by 'Product'
fig, axes = plt.subplots(2, 3, figsize=(18, 10))
fig.suptitle("Bivariate Analysis: Boxplots of Numerical Variables by Product", fontsize=16)

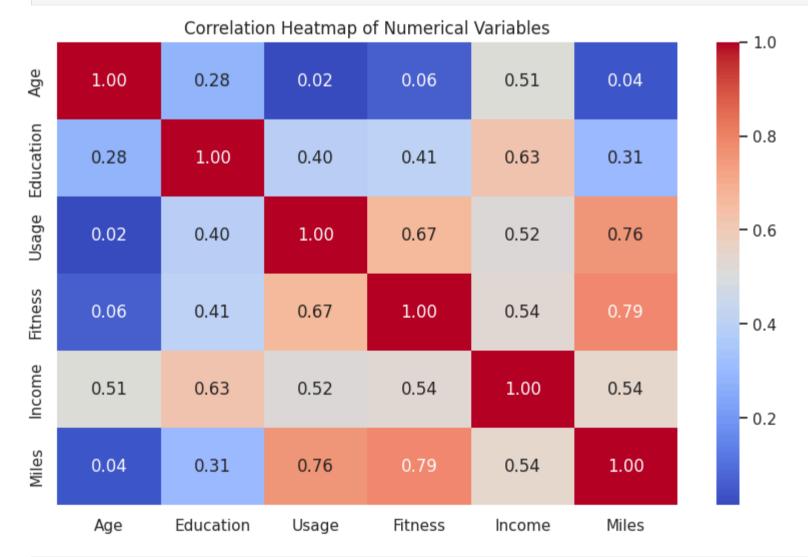
for i, col in enumerate(numerical_columns):
    sns.boxplot(x="Product", y=col, data=df, ax=axes[i//3, i%3], palette="muted")
    axes[i//3, i%3].set_title(f"{col} by Product")

plt.tight_layout(rect=[0, 0.03, 1, 0.95])
plt.show()
```

Bivariate Analysis: Boxplots of Numerical Variables by Product

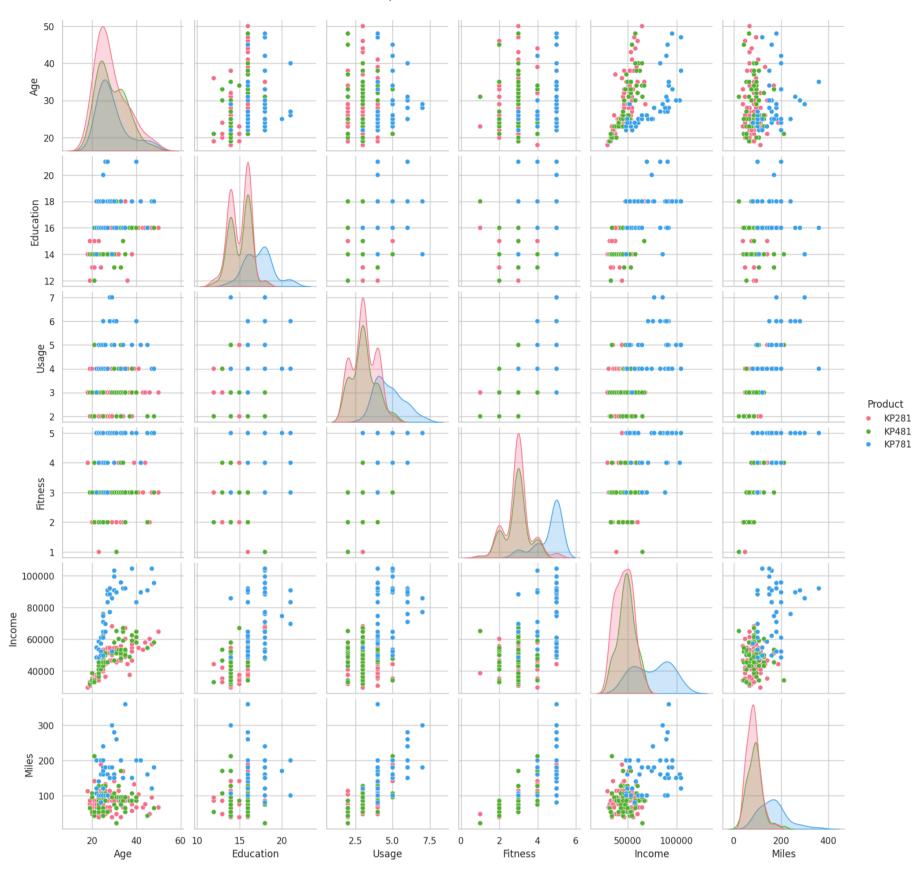






```
In []: # Pairplot to see pairwise relationships
    sns.pairplot(data=df, hue="Product", palette="husl", diag_kind="kde")
    plt.suptitle("Pairplot of Numerical Variables", y=1.02)
    plt.show()
```

Pairplot of Numerical Variables

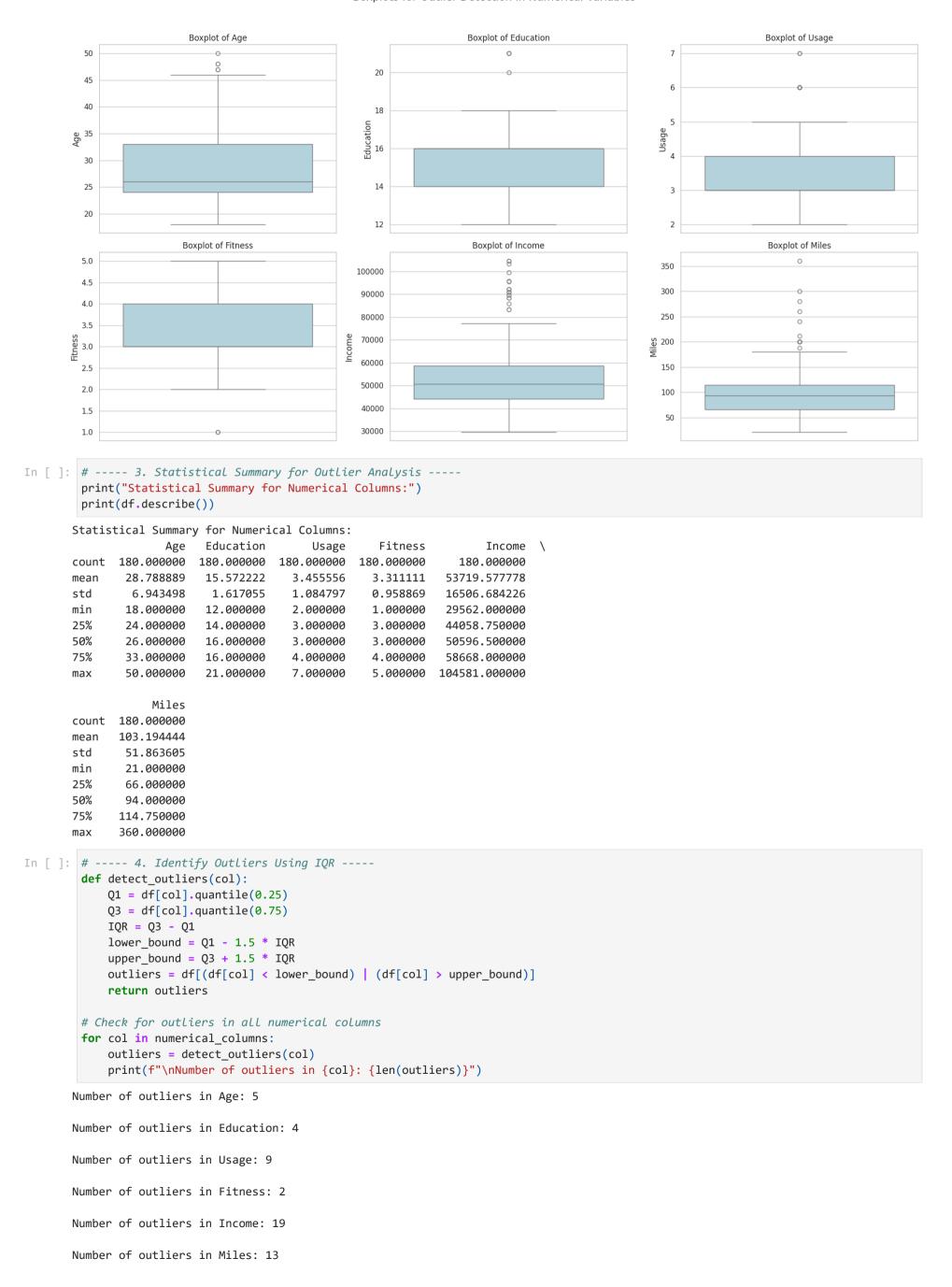


4. Missing Value & Outlier Detection. (10 Points)

```
In [ ]: # ---- 1. Check for Missing Values ----
        print("Missing Values in Each Column:")
        print(df.isnull().sum())
       Missing Values in Each Column:
       Product
       Age
       Gender
                        0
       Education
       MaritalStatus
       Usage
       Fitness
                        0
       Income
       Miles
       dtype: int64
In [ ]: # ---- 2. Detecting Outliers ----
        import seaborn as sns
        import matplotlib.pyplot as plt
        # Visualize outliers using boxplots for numerical variables
        numerical_columns = ['Age', 'Education', 'Usage', 'Fitness', 'Income', 'Miles']
        fig, axes = plt.subplots(2, 3, figsize=(18, 10))
        fig.suptitle("Boxplots for Outlier Detection in Numerical Variables", fontsize=16)
        for i, col in enumerate(numerical_columns):
            sns.boxplot(y=df[col], ax=axes[i//3, i%3], color="lightblue")
            axes[i//3, i%3].set_title(f"Boxplot of {col}")
```

```
plt.tight_layout(rect=[0, 0.03, 1, 0.95])
plt.show()
```

Boxplots for Outlier Detection in Numerical Variables



5.Business Insights based on Non-Graphical and Visual Analysis. (10 Points)

- Comments on the range of attributes.
- Comments on the distribution of the variables and relationship between them.
- Comments for each univariate and bivariate plot.

Range of Attributes:

Age:

- Range: 18 to 50 years.
- Most customers are in their mid-20s to mid-30s, indicating that younger individuals are more likely to purchase treadmills.

Education:

- Range: 12 to 21 years of education.
- Customers generally have higher educational levels, averaging around 16 years (indicative of college graduates).

Usage:

- Range: 2 to 7 times per week.
- Most customers plan to use the treadmill 3–4 times per week, showing moderate usage intentions.

Fitness:

- Range: 1 to 5 (self-rated).
- The average fitness score is 3.3, indicating most customers perceive themselves as moderately fit.

Income:

- Range: 29, 562to104,581.
- Customers represent a wide income range, with the majority earning around 50,000–60,000 annually.

Miles:

- Range: 21 to 360 miles per week.
- Most customers aim to run/walk around 90–110 miles per week, showing a balance between casual and serious fitness enthusiasts.

Comments on the Distribution of Variables:

1. Univariate Analysis:

Product:

- KP281 (Entry-level) is the most popular treadmill (44.4%), followed by KP481 (33.3%), and KP781 (Advanced, 22.2%).
- This suggests price sensitivity, with customers preferring entry-level and mid-tier options.

Gender:

• Males (57.8%) dominate treadmill purchases compared to females (42.2%).

Marital Status:

• Partnered customers (59.4%) outnumber single customers (40.6%).

Age, Education, Income, Miles:

• Most numerical variables show right-skewed distributions (e.g., Income, Miles), indicating a small segment of outliers with very high values.

2.Bivariate Analysis:

Income vs Product:

- Customers purchasing KP781 (advanced treadmill) have higher incomes compared to those buying KP281 or KP481.
- Actionable Insight: KP781 can be marketed to high-income individuals.

Age vs Product:

- KP281 buyers tend to be younger, while KP481 and KP781 buyers are slightly older.
- Young customers prioritize affordability, while older customers look for features.

Fitness vs Product:

• Customers with higher fitness scores are more likely to purchase KP481 or KP781, indicating that mid-level and advanced treadmills attract fitness-conscious individuals.

Miles vs Product:

• KP781 buyers expect to run more miles per week (higher commitment), while KP281 buyers plan for moderate usage.

Gender vs Product:

• Males are more likely to purchase KP781, while females show a preference for KP281. Marketing KP781 to male fitness enthusiasts may be effective.

3. Correlation:

• Strong positive correlation observed between Income and Miles (customers with higher incomes tend to aim for longer weekly distances). Moderate correlation between Fitness and Miles, reinforcing that fitness-conscious customers aim to use treadmills for higher mileage.

Comments for Plots:

1.Univariate Plots:

Histograms for Age, Income, and Miles show skewed distributions, with a concentration of values toward the lower end. Countplots for Product, Gender, and Marital Status reveal customer preferences, with KP281 being the most purchased.

2.Bivariate Plots:

Boxplots clearly highlight differences in Income, Age, and Fitness across the treadmill types. KP781 buyers have higher incomes and fitness levels, while KP281 appeals to younger, budget-conscious customers.

3. Heatmap and Pairplot:

Heatmap identifies correlations like Income ↔ Miles and Fitness ↔ Usage. Pairplots visualize relationships, showing clustering patterns for different treadmill products.

6.Recommendations (10 Points) - Actionable items for business. No technical jargon. No complications. Simple action items that everyone can understand.

1. Segment Target Audience by Product.

• KP281 (Entry-Level Treadmill, \$1,500):

Target younger customers (18–30 years old) and those with lower to mid-range incomes. Highlight affordability and ease of use in advertisements. Focus marketing on female customers who showed greater interest in this product.

• KP481 (Mid-Level Treadmill, \$1,750):

Promote to moderately fit individuals aged 25–40 years with mid-level incomes. Position KP481 as the "best value" treadmill—offering quality features without a premium price. Appeal to both partnered and single customers equally.

• KP781 (Advanced Treadmill, \$2,500):

Target high-income individuals and fitness enthusiasts who are committed to running longer distances. Focus marketing on males aged 30–50 years. Highlight advanced features like durability, tech integrations, and performance metrics.

2. Develop Targeted Marketing Campaigns:

Create age-based and income-based campaigns for each treadmill: Use social media platforms (e.g., Instagram, Facebook) to target younger customers for KP281. Use fitness-focused platforms (e.g., fitness blogs, YouTube ads) to market KP481 and KP781. Use personalized recommendations to customers based on their fitness level and weekly usage goals.

3.Introduce Bundle Offers:

Offer fitness accessories (e.g., yoga mats, water bottles) as a bundle with KP281 to attract budget-conscious buyers. Provide extended warranties or maintenance plans with KP781 to appeal to premium buyers.

4.Improve In-Store and Online Shopping Experience:

Train sales teams to recommend treadmills based on: Fitness goals (Usage, Miles). Income levels. Develop a simple quiz or recommendation tool on the website to suggest the best treadmill model based on customer preferences (e.g., fitness level, budget, weekly usage).

5. Focus on Fitness Influencers and Testimonials:

Partner with fitness influencers to showcase the features and benefits of each treadmill:

Use advanced features of KP781 to attract serious runners. Highlight the affordability of KP281 for beginners. Share testimonials from customers based on their age, fitness levels, and goals to build trust.

6.Loyalty and Referral Programs:

Implement loyalty programs to encourage repeat purchases of fitness accessories. Offer referral discounts to customers who bring in friends or family to purchase treadmills.

7. Promotions During Key Seasons:

Run targeted promotions during New Year (fitness resolutions) and summer (fitness preparation). Offer discounts or financing options for KP281 and KP481 during these periods.

Summary of Actionable Items:

- Segment marketing strategies based on age, income, and fitness levels.
- Develop targeted advertising campaigns for each treadmill type.
- Bundle fitness accessories or warranties to enhance value.
- Improve recommendations through tools and trained sales staff.
- Collaborate with fitness influencers and leverage customer testimonials.
- Introduce loyalty and referral programs.
- Run seasonal promotions to boost sales.