**Perform the detailed Exploratory Data Analysis (EDA) for the dataset**

**Hypothesis or Assumptions**

1. **Price Distribution**: The prices of bikes are normally distributed.
2. **Category Distribution**: The majority of the bikes fall into a specific category.
3. **Frame Material**: The price of bikes varies significantly with the frame material.
4. **Top Models**: The most expensive models belong to the Elite Road category.

**Subsetting the Data to Verify and Gather Insights**

1. **Price Distribution**:
   * Visualize the distribution of bike prices.
2. **Category Distribution**:
   * Analyze the distribution of bikes across different categories.
3. **Frame Material**:
   * Compare the prices of bikes with different frame materials.
4. **Top Models**:
   * Identify the top 10 most expensive models and their categories.

**Describing the Insights and Assumptions**

1. **Price Distribution**:
   * The price distribution of bikes shows a right-skewed pattern, indicating that there are more bikes in the lower price range.
2. **Category Distribution**:
   * The majority of the bikes fall under the Road category, making it the most prevalent category.
3. **Frame Material**:
   * Bikes with carbon frames are generally more expensive than those with aluminum frames, suggesting a premium on the material.

**Git link :** https://github.com/tamil713/bike-sales