Rating

4.193338

0.537431

1.000000

4.000000

count 9367.000000

mean std

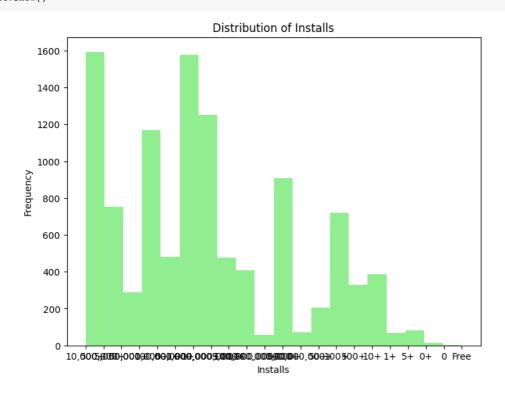
min

25%

Perform the Exploratory Data Analysis on your domain-based dataset and demonstrate the retrieved insights using "Matplotlib" modules. Visualize hidden insights using appropriate plots (graphs) [Usage of line plot and scatter plot are mandatory]

```
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv('googleplaystore.csv')
print(df.head())
                                                                            Category Rating \
            Photo Editor & Candy Camera & Grid & ScrapBook ART_AND_DESIGN
                                                                                            4.1
                                            Coloring book moana ART_AND_DESIGN
                                                                                            3.9
        U Launcher Lite - FREE Live Cool Themes, Hide ... ART_AND_DESIGN
                                          Sketch - Draw & Paint ART_AND_DESIGN
                                                                                            4.5
                      Pixel Draw - Number Art Coloring Book ART AND DESIGN
                                                                                            4.3
        Reviews Size
                           Installs Type Price Content Rating \
          159 19M 10,000+ Free
967 14M 500,000+ Free
     0
                             10,000+ Free 0 Everyone
     1
                                                   0
                                                             Everyone
        87510 8.7M 5,000,000+ Free 0 Everyone
215644 25M 50,000,000+ Free 0 Teen
967 2.8M 100,000+ Free 0 Everyone
     2
     3
     Genres Last Updated
O Art & Design January 7, 2018
1 Art & Design; Pretend Play January 15, 2018
                                                                     Current Ver \
                                                                             1.0.0
                                                                             2.0.0
     2
                        Art & Design August 1, 2018
                                                                             1.2.4
                                           June 8, 2018 Varies with device
     3
                        Art & Design
          Art & Design; Creativity June 20, 2018
     4
          Android Ver
     0
         4.0.3 and up
         4.0.3 and up
     2
        4.0.3 and up
           4.2 and up
           4.4 and up
print(df.info())
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 10841 entries, 0 to 10840
     Data columns (total 13 columns):
                       Non-Null Count Dtype
      # Column
          App 10841 non-null object
Category 10841 non-null object
Rating 9367 non-null float64
Reviews 10841 non-null object
Size 10841 non-null object
Installs 10841 non-null object
Type 10840 non-null object
Price 10841 non-null object
          -----
      0
          App
      1
      2
      3
       5
       6
       8
           Content Rating 10840 non-null object
       9
                             10841 non-null object
           Genres
          Genres
Last Updated
      10
                             10841 non-null object
      11 Current Ver 10833 non-null object
12 Android Ver 10838 non-null object
     dtypes: float64(1), object(12)
     memory usage: 1.1+ MB
     None
print(df.describe())
                   Rating
     count 9367.000000
                4.193338
     mean
     std
                 0.537431
                1.000000
     min
     25%
                4.000000
     50%
                4.300000
     75%
                 4.500000
              19.000000
print(df.describe())
```

```
plt.figure(figsize=(8, 6))
plt.hist(df['Installs'], bins=20, color='lightgreen')
plt.xlabel('Installs')
plt.ylabel('Frequency')
plt.title('Distribution of Installs')
plt.show()
```



50%

75%

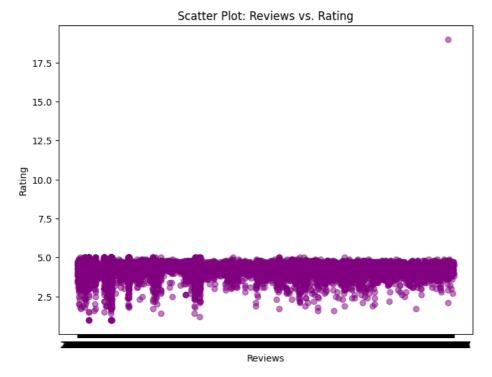
max

4.300000

4.500000

19.000000

```
plt.figure(figsize=(8, 6))
plt.scatter(df['Reviews'], df['Rating'], alpha=0.5, color='purple')
plt.xlabel('Reviews')
plt.ylabel('Rating')
plt.title('Scatter Plot: Reviews vs. Rating')
plt.show()
```



```
plt.figure(figsize=(12, 6))
df['Category'].value_counts().plot(kind='bar', color='coral')
plt.xlabel('Category')
plt.ylabel('Count')
plt.title('Number of Apps per Category')
plt.xticks(rotation=90)
plt.show()
```

