→ Screen Time Analysis using Python

Let's start the task of screen time analysis by importing the necessary Python libraries and the dataset:

```
import pandas as pd
import numpy as np
import plotly.express as px
import plotly.graph_objects as go
data = pd.read_csv("/content/Screentime-App-Details.csv")
print(data.head())
\supseteq
             Date Usage Notifications Times opened
                                                             App
     0 08/26/2022
                                                  49 Instagram
                                   70
                      38
       08/27/2022
                      39
                                                   48 Instagram
                                     43
       08/28/2022
                      64
                                    231
                                                   55 Instagram
       08/29/2022
                      14
                                     35
     3
                                                   23 Instagram
       08/30/2022
                       3
                                     19
                                                    5 Instagram
                                                          + Code
                                                                      + Text
```

Now let's have a look if the dataset has any null values or not:

```
data.isnull().sum()

Date 0
Usage 0
Notifications 0
Times opened 0
App 0
dtype: int64
```

The dataset doesn't have any null values. Now let's have a look at the descriptive statistics of the data:

```
print(data.describe())
                Usage Notifications Times opened
            54.000000
     count
                           54.000000
                                         54.000000
     mean
            65.037037
                          117.703704
                                         61.481481
     std
            58.317272
                           97.017530
                                         43.836635
     min
             1.000000
                            8.000000
                                          2.000000
     25%
            17.500000
                            25.750000
                                         23.500000
     50%
            58.500000
                            99.000000
                                         62.500000
            90.500000
                                         90.000000
     75%
                          188.250000
```

405.000000

Now let's start with analyzing the screen time of the user. I will first look at the amount of usage of the apps:

192.000000

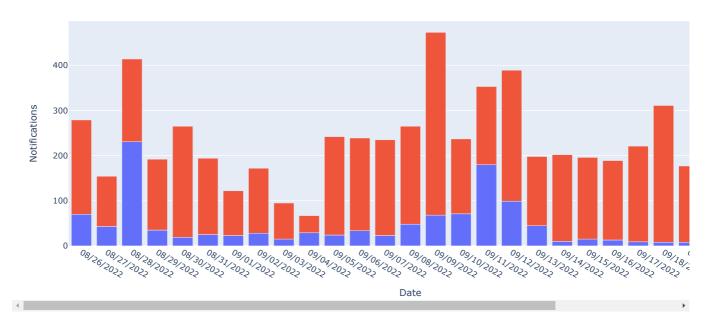
244.000000

Usage

300

Now let's have a look at the number of notifications from the apps:

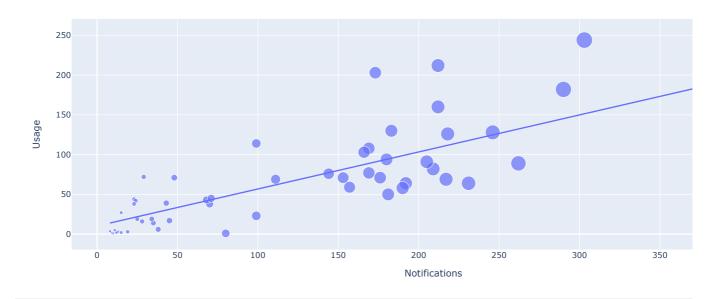
Notifications



Now let's have a look at the number of times the apps opened:

We generally use our smartphones when we get notified by any app. So let's have a look at the relationship between the number of notifications and the amount of usage:

Relationship Between Number of Notifications and Usage



There's a linear relationship between the number of notifications and the amount of usage. It means that more notifications result in more use of smartphones.

- Summary

So this is how we can analyze the screen time of a user using the Python programming language. Screen Time Analysis is the task of analyzing and creating a report on which applications and websites are used by the user for how much time.