PHASE 3: DEVELOPMENT PART 1

WEBSITE TRAFFIC ANALYSIS

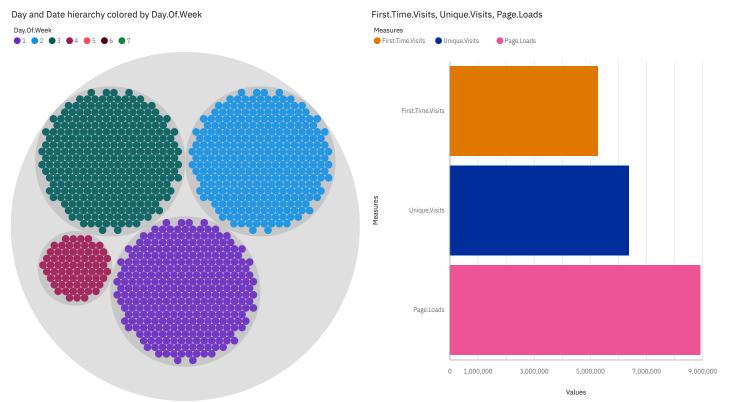
PRIYADARSHINI ENGINEERING COLLEGE

Website traffic analysis is the process of collecting, examining, and interpreting data related to the visitors and interactions on a website. It provides invaluable insights into user behavior, preferences, and trends, helping organizations make informed decisions, optimize their online presence, and enhance user experiences.

Abstract:

This project aims to analyze website traffic data for insights into user behavior, popular pages, and traffic sources. It involves data collection, visualization using IBM Cognos, and Python for advanced analysis. The goal is to optimize user experiences and enhance website performance.

Tab 1



Insights:

Based on the current forecasting, First.Time.Visits may reach over 395 thousand by Day Monday+1.
The overall number of results for First.Time.Visits is over two thousand .
The overall number of results for Page.Loads is over two thousand.
The overall number of results for Unique. Visits is over two thousand

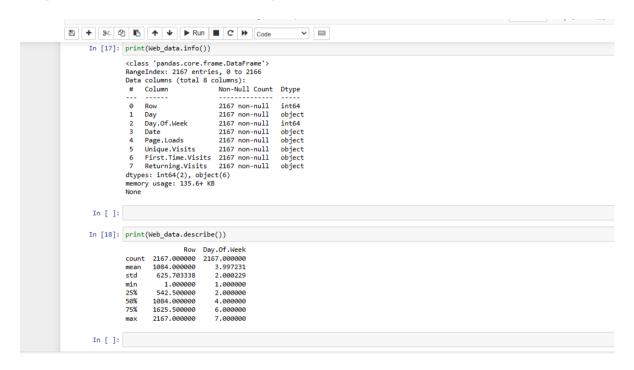
'Python Integration' for Website Traffic Analysis:

Including the Insights into the Python to know the actual data that provided by Kaggle

```
v
      In [ ]:
     In [16]: import pandas as pd
               Web_data = pd.read_csv("D:\daily-website-visitors.csv",header = 0,sep = ",")
Web_data.dropna(axis = 0,inplace=True)
              print(Web_data)
                                        Day.Of.Week Date Page.Loads Unique.Visits \
1 9/14/2014 2,146
                                 Day Day.Of.Week
                                                                  2,146
3,621
                               Sunday
                               Monday
                                                  2 9/15/2014
                                                                                   2,528
                       3 Tuesday
4 Wednesday
5 Thursday
                                                 3 9/16/2014
4 9/17/2014
                                                                                   2,630
2,614
                                                                     3,698
                                                                     3,667
               4
                                                 5 9/18/2014
                                                                     3,316
                                                                                   2,366
                                               7 8/15/2020
1 8/16/2020
2 8/17/2020
                                                                     2,221
               2162 2163
                           Saturday
                                                                                  1,696
               2163 2164
2164 2165
                              Sunday
Monday
                                                                    2,724
3,456
                                                                                   2,037
                                                                                   2,638
                             Tuesday
                                                  3 8/18/2020
                                                                     3,581
                                                                                   2,683
               2166 2167 Wednesday
                                                 4 8/19/2020
                                                                    2,064
                                                                                   1,564
                    First.Time.Visits Returning.Visits
               a
                              1,430
2,297
               2
                                 2,352
                                                     278
               3
                                 2,327
                                                     287
                                 2,130
                                                     236
               2162
                                 1,373
                                                     323
                                 1,686
               2164
                                 2,181
                                                     457
                                                     499
               2165
                                 2,184
```

```
2166 1,297 267
[2167 rows x 8 columns]
```

Getting of data set information using info function.



Printing the values of data set using Pandas Library

