Personal Data Analyzer: Netflix

```
import pandas as pd
In [1]:
           df = pd.read csv('ViewingActivity.csv')
In [2]:
           df.shape
In [3]:
          (1810, 10)
Out[3]:
           df.head(2)
In [4]:
              Profile
                                                                                          Supplemental
Out[4]:
                          Start
                                Duration
                                                                                                                                            Country
                                                                                                          Device Type Bookmark
                                                 Attributes
                                                                                  Title
                          Time
                                                                                            Video Type
               Name
                       11/7/2020
                                            Autoplayed: user
                                                               Friends: Season 6: The One
                                                                                                           Chrome PC
                                                                                                                                                 IN
              Akki4A
                                  0:00:59
                                                                                                                         0:00:59
                                                                                                   NaN
                                                                                                                                    0:00:59
                                                                                                           (Cadmium)
                          16:01
                                               action: None:
                                                                    with Mac and C.H.E....
                                                                                                                                              (India)
                                                               Friends: Season 6: The One
                                                                                                           Chrome PC
                       11/7/2020
                                                                                                                                                  IN
              Akki4A
                                  0:18:18
                                                      NaN
                                                                                                   NaN
                                                                                                                         0:21:39
                                                                                                                                    0:21:39
                          15:35
                                                                                                           (Cadmium)
                                                                     with Joey's Fridge ...
                                                                                                                                              (India)
           df = df.drop(['Profile Name','Attributes','Supplemental Video Type','Device Type','Bookmark','Latest Bookmark','Count
In [5]:
           df.head(2)
Out[5]:
                 Start Time Duration
                                                                            Title
          0 11/7/2020 16:01
                              0:00:59
                                      Friends: Season 6: The One with Mac and C.H.E....
          1 11/7/2020 15:35
                              0:18:18
                                       Friends: Season 6: The One with Joey's Fridge ...
          df.dtypes
In [6]:
         Start Time
                           object
Out[6]:
          Duration
                           object
          Title
                           object
          dtype: object
```

```
df['Start Time'] = pd.to datetime(df['Start Time'], utc = True)
 In [7]:
          df.dtypes
Out[7]: Start Time
                       datetime64[ns, UTC]
         Duration
                                     object
         Title
                                     object
         dtype: object
          # change the Start Time column into the dataframe's index
In [8]:
          df = df.set index('Start Time')
          # convert from UTC timezone to Asian/Kolkata time
          df.index = df.index.tz convert('Asia/Kolkata')
          # reset the index so that Start Time becomes a column again
          df = df.reset index()
          #double-check that it worked
          df.head(1)
                                                                          Title
Out[8]:
                        Start Time Duration
          0 2020-11-07 21:31:00+05:30 0:00:59 Friends: Season 6: The One with Mac and C.H.E....
          df.dtypes
 In [9]:
Out[9]: Start Time
                       datetime64[ns, Asia/Kolkata]
         Duration
                                               object
         Title
                                               object
         dtype: object
          df['Duration'] = pd.to timedelta(df['Duration'])
In [10]:
          df.dtypes
Out[10]: Start Time
                       datetime64[ns, Asia/Kolkata]
         Duration
                                     timedelta64[ns]
         Title
                                              object
         dtype: object
          df.head(1)
In [11]:
Out[11]:
```

```
Start Time Duration Title

0 2020-11-07 21:31:00+05:30 0 days 00:00:59 Friends: Season 6: The One with Mac and C.H.E....

In [12]: # create a new dataframe called star that that takes from df
# only the rows in which the Title column contains 'Friends'
star = df[df['Title'].str.contains('Friends', regex=False)]

In [13]: star.shape

Out[13]: (453, 3)

In [14]: star = star[(star['Duration']> '0 days 00:01:00')]
star.shape

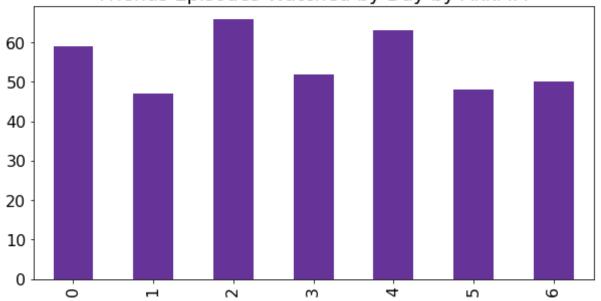
Out[14]: (385, 3)
```

This is How Much Time i have spent watching Friends

Graphical Representation:

```
In [17]: %matplotlib inline
         import matplotlib
In [18]:
          # set our categorical and define the order so the days are plotted Monday-Sunday
In [19]:
          star['weekday'] = pd.Categorical(star['weekday'], categories=
              [0,1,2,3,4,5,6],
              ordered=True)
          # create star by day and count the rows for each weekday, assigning the result to that variable
          star by day = star['weekday'].value counts()
          # sort the index using our categorical, so that Monday (0) is first, Tuesday (1) is second, etc.
          star by day = star by day.sort index()
          # optional: update the font size to make it a bit larger and easier to read
          matplotlib.rcParams.update({'font.size': 16})
          # plot star by day as a bar chart with the listed size and title
          star by day.plot(kind='bar', figsize=(10,5), title='Friends Episodes Watched by Day by Akki4A', color=(0.4,0.2,0.6))
Out[19]: <AxesSubplot:title={'center':'Friends Episodes Watched by Day by Akki4A'}>
```

Friends Episodes Watched by Day by Akki4A



```
In [20]: # set our categorical and define the order so the hours are plotted 1-24 hours
    star['hour'] = pd.Categorical(star['hour'], categories=
        [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24],
        ordered=True)

# create star_by_hour and count the rows for each hour, assigning the result to that variable
    star_by_day = star['hour'].value_counts()

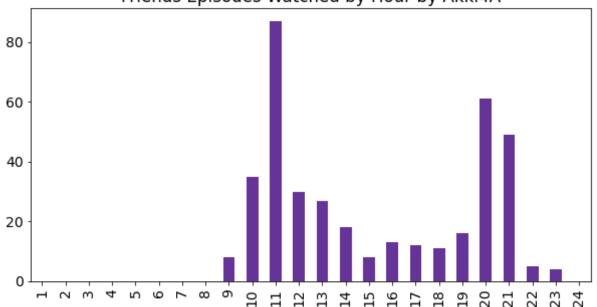
# sort the index using our categorical, so that 1 (0) is 1 hour, 2 (1) is 2 hour so on...
    star_by_day = star_by_day.sort_index()

matplotlib.rcParams.update({'font.size': 14})

star_by_day.plot(kind='bar', figsize=(10,5), title='Friends Episodes Watched by Hour by Akki4A', color=(0.4,0.2,0.6))
```

Out[20]: <AxesSubplot:title={'center':'Friends Episodes Watched by Hour by Akki4A'}>

Friends Episodes Watched by Hour by Akki4A



```
In []:

In []:
```