Analyzing The Impact Of Social Media On Student Life

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In [45]:
          import pandas as pd
          import numpy as np
          import seaborn as sns
          import matplotlib.pyplot as plt
          df=pd.read csv('Students Social Media Addiction.csv')
In [29]:
In [30]: | df=df[df['Most_Used_Platform']!='TikTok']
In [31]: df.head()
Out[31]:
             Student_ID Age Gender Academic_Level
                                                   Country Avg_Daily_Usage_Hours Most_Used
           0
                        19
                            Female
                                                 Bangladesh
                                                                           5.2
                     1
                                     Undergraduate
           1
                     2
                        22
                              Male
                                         Graduate
                                                     India
                                                                           2.1
           3
                     4
                        18
                                                       UK
                                                                           3.0
                              Male
                                      High School
           4
                     5
                        21
                              Male
                                         Graduate
                                                   Canada
                                                                           4.5
                        19 Female
                                                                           7.2
           5
                                    Undergraduate
                                                   Australia
In [32]: | df.dtypes
Out[32]: Student ID
                                                int64
                                               int64
          Age
          Gender
                                              object
          Academic_Level
                                              object
                                              object
          Country
          Avg Daily Usage Hours
                                              float64
          Most_Used_Platform
                                              object
          Affects Academic Performance
                                              object
          Sleep_Hours_Per_Night
                                              float64
          Mental Health Score
                                               int64
          Relationship Status
                                              object
          Conflicts Over Social Media
                                               int64
          Addicted Score
                                                int64
          dtype: object
          df['Affects Academic Performance']=df['Affects Academic Performanc
In [33]:
          e'].map({'Yes':1,'No':0})
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In [34]:	ďΤ	

Out[34]:

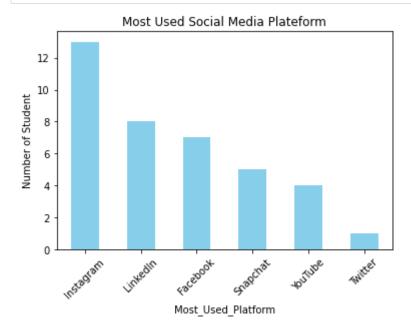
	Student_ID	Age	Gender	Academic_Level	Country	Avg_Daily_Usage_Hours	Most_Us
0	1	19	Female	Undergraduate	Bangladesh	5.2	
1	2	22	Male	Graduate	India	2.1	
3	4	18	Male	High School	UK	3.0	
4	5	21	Male	Graduate	Canada	4.5	
5	6	19	Female	Undergraduate	Australia	7.2	
6	7	23	Male	Graduate	Germany	1.5	
7	8	20	Female	Undergraduate	Brazil	5.8	
9	10	21	Female	Graduate	South Korea	3.3	
10	11	19	Male	Undergraduate	France	4.8	
12	13	22	Male	Graduate	Italy	2.8	
13	14	18	Female	High School	Mexico	6.5	
14	15	21	Male	Undergraduate	Russia	3.7	
16	17	24	Male	Graduate	Sweden	2.0	
17	18	19	Female	High School	Norway	5.0	
18	19	21	Male	Undergraduate	Denmark	3.5	
19	20	20	Female	Undergraduate	Netherlands	4.7	
21	22	23	Female	Graduate	Switzerland	2.5	
22	23	19	Male	Undergraduate	Austria	4.9	
24	25	22	Male	Graduate	Greece	3.2	
25	26	19	Female	High School	Ireland	6.1	
26	27	21	Male	Undergraduate	New Zealand	3.8	
28	29	24	Male	Graduate	Malaysia	2.2	
29	30	19	Female	High School	Thailand	5.9	
30	31	21	Male	Undergraduate	Vietnam	3.6	
31	32	20	Female	Undergraduate	Philippines	4.8	
33	34	23	Female	Graduate	Taiwan	2.6	
34	35	19	Male	Undergraduate	Hong Kong	4.7	
36	37	22	Male	Graduate	Israel	3.1	
37	38	19	Female	High School	UAE	6.2	
38	39	21	Male	Undergraduate	Egypt	3.9	
40	41	24	Male	Graduate	South Africa	2.3	
41	42	19	Female	High School	Nigeria	5.8	

	Student_ID	Age	Gender	Academic_Level	Country	Avg_Daily_Usage_Hours I	Most_Us
42	43	21	Male	Undergraduate	Kenya	3.7	
43	44	20	Female	Undergraduate	Ghana	4.6	
45	46	23	Female	Graduate	Chile	2.7	
46	47	19	Male	Undergraduate	Colombia	4.8	
48	49	22	Male	Graduate	Venezuela	3.3	
49	50	19	Female	High School	Ecuador	6.3	

In [35]: df.describe()

Out[35]:

	Student_ID	Age	Avg_Daily_Usage_Hours	Affects_Academic_Performance	Sleep_
count	38.000000	38.000000	38.000000	38.000000	
mean	25.263158	20.684211	4.121053	0.473684	
std	14.766075	1.756921	1.458648	0.506009	
min	1.000000	18.000000	1.500000	0.000000	
25%	13.250000	19.000000	3.025000	0.000000	
50%	25.500000	21.000000	3.850000	0.000000	
75%	37.750000	22.000000	4.975000	1.000000	
max	50.000000	24.000000	7.200000	1.000000	



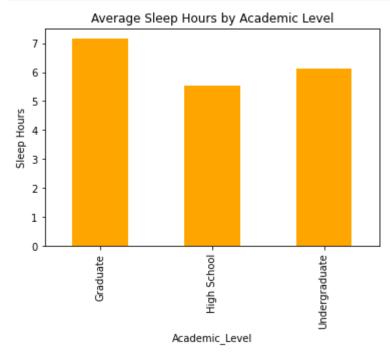
```
In [37]:
          df.groupby('Gender')['Avg_Daily_Usage_Hours'].mean()
Out[37]: Gender
         Female
                    5.011765
         Male
                    3.400000
         Name: Avg_Daily_Usage_Hours, dtype: float64
In [38]: df['Most_Used_Platform'].value_counts()
Out[38]: Most_Used_Platform
         Instagram
                        8
         LinkedIn
         Facebook
                        7
                        5
         Snapchat
         YouTube
                        4
         Twitter
                        1
         Name: count, dtype: int64
```

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In [39]	i U I			

Out[39]:

		Student_ID	Age	Gender	Academic_Level	Country	Avg_Daily_Usage_Hours	Most_Us
_	0	1	19	Female	Undergraduate	Bangladesh	5.2	
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	34	35	19	Male	Undergraduate	Hong Kong	4.7	
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	37	38	19	Female	High School	UAE	6.2	
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48	49	22	Male	Graduate	Venezuela	3.3
49	50	19	Female	High School	Ecuador	6.3



Out[41]: Most_Used_Platform LinkedIn 8.125000 Twitter 8.000000 YouTube 7.000000 Facebook 6.857143 Snapchat 5.800000 Instagram 5.384615

Name: Mental_Health_Score, dtype: float64

In [42]: df.groupby('Relationship_Status')['Conflicts_Over_Social_Media'].mea
n()

Out[42]: Relationship_Status

Complicated 3.300000
In Relationship 2.333333
Single 1.000000

Name: Conflicts_Over_Social_Media, dtype: float64

Out[43]: Gender

Female 7.176471 Male 4.952381

Name: Addicted_Score, dtype: float64

Out[51]: <function matplotlib.pyplot.show(close=None, block=None)>



In []: