## **Data Analysis**

•	Rank		Channel Info	Influence Score	Followers	Avg. Likes	Posts	Day Eng Rate	Post Avg. Likes	Total Likes	C
	0	1	\ncristiano	92	485.2m	8.7m	3.4k	0.013	6.3m	29.1b	
	1	2	kyliejenner	91	370.7m	8.2m	7.0k	0.014	5.0m	57.4b	
	2	3	\nleomessi	90	363.9m	6.7m	915	0.010	3.5m	6.1b	
	3	4	\nselenagomez	93	348.8m	6.1m	1.9k	0.005	1.7m	11.4b	
	4	5	\ntherock	91	339.4m	1.8m	6.8k	0.003	932.0k	12.6b	
	•••										
	195	196	\nkhabib_nurmagomedov	63	33.6m	680.6k	4.6k	0.009	305.7k	3.1b	
	196	197	\ndanbilzerian	84	33.6m	2.2m	1.4k	0.064	2.1m	3.0b	(
	197	198	\nraisa6690	80	33.6m	227.8k	4.2k	0.003	103.2k	955.9m	Inc
	198	199	\nluansantana	79	33.5m	193.3k	865	0.003	82.6k	167.2m	
	199	200	\nnancyajram	81	33.4m	382.5k	3.8k	0.004	128.2k	1.5b	

200 rows × 10 columns

```
In [3]: df['Channel Info'] = df['Channel Info'].str.replace('\n', '')
In [4]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
        RangeIndex: 200 entries, 0 to 199
        Data columns (total 10 columns):
            Column
                                Non-Null Count Dtype
        _ _ _
            -----
                                -----
        0
            Rank
                                200 non-null
                                               int64
        1 Channel Info
                                200 non-null
                                               object
         2 Influence Score
                              200 non-null
                                               int64
        3 Followers
                                200 non-null
                                               object
                                200 non-null
        4 Avg. Likes
                                               object
                                200 non-null
        5
           Posts
                                               object
        6 60-Day Eng Rate
                                200 non-null float64
        7
            New Post Avg. Likes 200 non-null
                                               object
           Total Likes
                                200 non-null
                                               object
        9
            Country Or Region 137 non-null
                                               object
        dtypes: float64(1), int64(2), object(7)
        memory usage: 15.8+ KB
In [5]: df.isnull().sum()
        Rank
                              0
Out[5]:
                              0
        Channel Info
        Influence Score
                              0
        Followers
        Avg. Likes
                              0
                              0
        Posts
        60-Day Eng Rate
                              0
        New Post Avg. Likes
                              0
        Total Likes
                              0
        Country Or Region
        dtype: int64
```

### Missing Data Handling

```
United States
                                    65
 Out[7]:
         Brazil
                                    13
         India
                                    12
         Indonesia
                                     7
                                     6
         France
         Spain
                                     5
                                     4
         United Kingdom
                                     3
         Colombia
         Canada
                                     3
         Mexico
                                     2
         Turkey
                                     2
         Netherlands
                                     2
         Switzerland
                                     1
                                     1
         Germany
         Czech Republic
                                     1
         British Virgin Islands
                                     1
         Sweden
                                     1
         Australia
                                     1
         Anguilla
                                     1
         Côte d'Ivoire
                                     1
         Puerto Rico
                                     1
         United Arab Emirates
                                     1
         Italy
                                     1
         Uruguay
                                     1
                                     1
         Russia
         Name: Country Or Region, dtype: int64
         mode_value = df['Country Or Region'].mode()[0]
 In [8]:
         mode_value
          'United States'
Out[8]:
         df['Country Or Region'] = df['Country Or Region'].fillna(mode_value)
 In [9]:
         df['Country Or Region'].isnull().sum()
In [10]:
Out[10]:
In [11]:
         df['Country Or Region'].value_counts()
```

```
128
         United States
Out[11]:
         Brazil
                                     13
         India
                                     12
         Indonesia
                                      7
         France
                                      6
         Spain
                                      5
         United Kingdom
                                      4
                                      3
         Colombia
                                      3
         Canada
                                      2
         Mexico
         Turkey
                                      2
         Netherlands
                                      2
                                      1
         Switzerland
         Germany
                                      1
         Czech Republic
                                      1
         British Virgin Islands
                                      1
         Sweden
                                      1
         Australia
                                      1
         Anguilla
                                      1
         Côte d'Ivoire
                                      1
         Puerto Rico
                                      1
         United Arab Emirates
                                      1
         Italy
                                      1
                                      1
         Uruguay
                                      1
         Russia
         Name: Country Or Region, dtype: int64
In [12]: df.columns
         Index(['Rank', 'Channel Info', 'Influence Score', 'Followers', 'Avg. Likes',
Out[12]:
                 'Posts', '60-Day Eng Rate', 'New Post Avg. Likes', 'Total Likes',
                 'Country Or Region'],
                dtype='object')
```

### Convert required Data Type

```
In [13]: # Converting function
         def to_numeric(value):
             multiplier = 1 # Default multiplier is 1
             if value[-1] == 'k':
                 multiplier = 1000
             elif value[-1] == 'm':
                 multiplier = 1000000
             elif value[-1] == 'b':
                 multiplier = 1000000000
                 return float(value[:-1]) * multiplier
             except ValueError:
                 return None
In [14]: df['Followers'] = df['Followers'].apply(to_numeric)
         df['Avg. Likes'] = df['Avg. Likes'].apply(to_numeric)
In [15]: df['Posts'] = df['Posts'].apply(to_numeric)
         df['New Post Avg. Likes'] = df['New Post Avg. Likes'].apply(to_numeric)
         df['Total Likes'] = df['Total Likes'].apply(to_numeric)
```

In [16]: df.info() <class 'pandas.core.frame.DataFrame'> RangeIndex: 200 entries, 0 to 199 Data columns (total 10 columns): Column Non-Null Count Dtype 0 Rank int64 200 non-null 1 Channel Info 200 non-null object 2 Influence Score 200 non-null int64 Followers 200 non-null float64 3 4 Avg. Likes 200 non-null float64 5 Posts 200 non-null float64 60-Day Eng Rate 200 non-null 6 float64 7 New Post Avg. Likes 199 non-null float64 float64 Total Likes 200 non-null 9 Country Or Region 200 non-null object dtypes: float64(6), int64(2), object(2) memory usage: 15.8+ KB df.head() In [17]: 60-Out[17]: **New Post Channel Influence** Day Avg. Rank **Followers Posts Total Likes** Avg. Info Score Likes Eng Likes Rate 3400.0 0 92 485200000.0 8700000.0 0.013 6300000.0 2.910000e+10 1 cristiano 1 2 kyliejenner 370700000.0 8200000.0 7000.0 0.014 5000000.0 5.740000e+10 2 3 leomessi 363900000.0 6700000.0 91.0 0.010 3500000.0 6.100000e+09 3 348800000.0 6100000.0 1900.0 0.005 1700000.0 1.140000e+10 4 selenagomez 4 5 339400000.0 1800000.0 6800.0 0.003 932000.0 1.260000e+10 therock

### **Summary Statistics**

In [18]: df.describe()

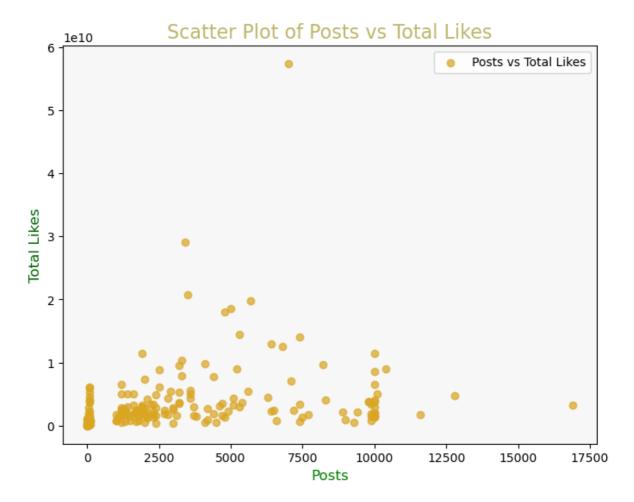
Out[18]:		Rank	Influence Score	Followers	Avg. Likes	Posts	60-Day Eng Rate	New Pos Avg. Like
	count	200.000000	200.000000	2.000000e+02	2.000000e+02	200.000000	200.000000	1.990000e+0
	mean	100.500000	81.850000	7.849100e+07	1.785050e+06	3330.760000	0.019160	1.230234e+0
	std	57.879185	8.875323	7.492015e+07	2.192133e+06	3443.485081	0.032577	1.860266e+0
	min	1.000000	22.000000	3.340000e+07	6.350000e+04	2.000000	0.000000	1.750000e+0
	25%	50.750000	80.000000	4.067500e+07	4.990500e+05	93.250000	0.004000	2.286000e+0
	50%	100.500000	84.000000	5.095000e+07	1.100000e+06	2100.000000	0.009500	5.784000e+0
	75%	150.250000	86.000000	7.050000e+07	2.125000e+06	5025.000000	0.017250	1.300000e+0
	max	200.000000	93.000000	4.852000e+08	1.540000e+07	16900.000000	0.250000	1.290000e+0
4								•

## **Data Visualization**

```
In [19]: fig, ax = plt.subplots(figsize=(8, 6))
    scatter = ax.scatter(df['Posts'], df['Total Likes'], alpha=0.7, c='goldenrod', mark
    ax.set_facecolor((0.9, 0.9, 0.9, 0.3))

ax.set_title('Scatter Plot of Posts vs Total Likes', color='darkkhaki', fontsize=16
    ax.set_xlabel('Posts', color='green', fontsize=12)
    ax.set_ylabel('Total Likes', color='darkgreen', fontsize=12)
    ax.legend()

# plt.grid(True)
plt.show()
```



```
In [20]: country_scores = df.groupby('Country Or Region')['Influence Score'].mean().reset_ir

plt.figure(figsize=(10, 6))

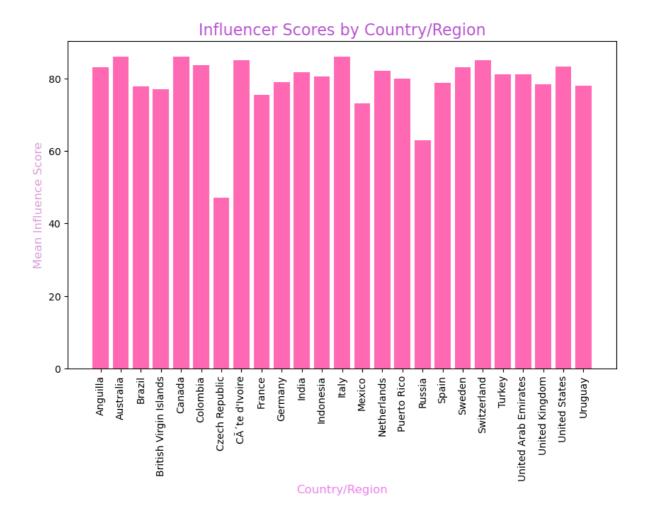
plt.bar(country_scores['Country Or Region'], country_scores['Influence Score'], col

plt.title('Influencer Scores by Country/Region', color='mediumorchid', fontsize=16)

plt.xlabel('Country/Region', color='violet', fontsize=12)

plt.ylabel('Mean Influence Score', color='plum', fontsize=12)

plt.xticks(rotation=90)
plt.show()
```



```
In [21]: country_scores = df.groupby('Country Or Region')['Followers'].mean().reset_index()

plt.figure(figsize=(10, 6))

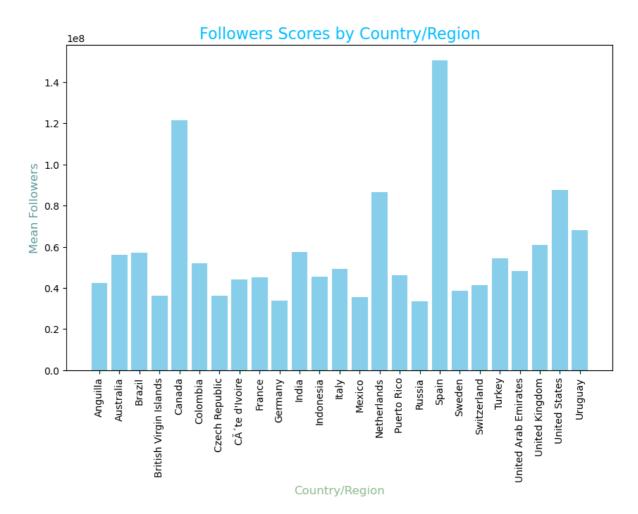
plt.bar(country_scores['Country Or Region'], country_scores['Followers'], color='sk

plt.title('Followers Scores by Country/Region', color='deepskyblue', fontsize=16)

plt.xlabel('Country/Region', color='darkseagreen', fontsize=12)

plt.ylabel('Mean Followers', color='cadetblue', fontsize=12)

plt.xticks(rotation=90)
plt.show()
```



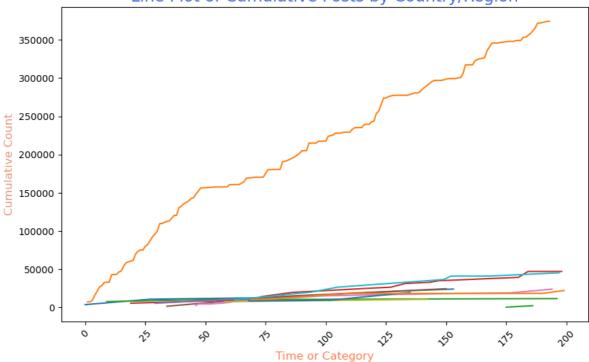
```
In [22]: country_data = df.groupby('Country Or Region')[['Posts', 'Total Likes']].cumsum()
    country_data['Country Or Region'] = df['Country Or Region']
    plt.figure(figsize=(10, 6))

for country in country_data['Country Or Region'].unique():
        data_subset = country_data[country_data['Country Or Region'] == country]
        plt.plot(data_subset.index, data_subset['Posts'], label=f'{country} - Posts')

plt.title('Line Plot of Cumulative Posts by Country/Region', color='royalblue', for
    plt.xlabel('Time or Category', color='coral', fontsize=12)
    plt.ylabel('Cumulative Count', color='darksalmon', fontsize=12)
# plt.legend(loc='upper right', bbox_to_anchor=(0.8, 1.0), borderaxespad=0)

# Show the plot
    plt.xticks(rotation=45)
    plt.show()
```

### Line Plot of Cumulative Posts by Country/Region



## **QA Part**

# 1) Are there any correlated features in the given dataset?

In [23]: correlation = df.corr(numeric\_only=True)
 correlation

Out[23]:

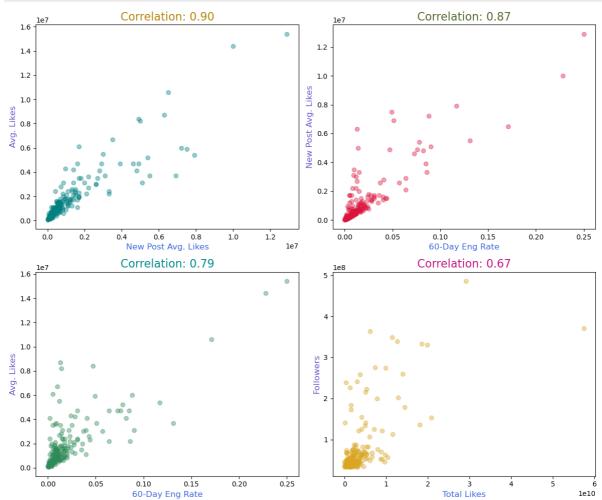
	Rank	Influence Score	Followers	Avg. Likes	Posts	60-Day Eng Rate	New Post Avg. Likes	Total Likes
Rank	1.000000	-0.354843	-0.698193	-0.277699	-0.059337	0.028900	-0.270020	-0.465119
Influence Score	-0.354843	1.000000	0.365428	0.048502	0.170405	-0.072460	0.031685	0.234987
Followers	-0.698193	0.365428	1.000000	0.346829	0.068185	-0.107439	0.259494	0.667546
Avg. Likes	-0.277699	0.048502	0.346829	1.000000	-0.350093	0.789359	0.899820	0.361296
Posts	-0.059337	0.170405	0.068185	-0.350093	1.000000	-0.334560	-0.292471	0.237158
60-Day Eng Rate	0.028900	-0.072460	-0.107439	0.789359	-0.334560	1.000000	0.866097	-0.001560
New Post Avg. Likes	-0.270020	0.031685	0.259494	0.899820	-0.292471	0.866097	1.000000	0.350097
Total Likes	-0.465119	0.234987	0.667546	0.361296	0.237158	-0.001560	0.350097	1.000000

4

```
sns.heatmap(correlation, annot=True, cmap='cividis', linewidths=0.6)
In [24]:
          <Axes: >
Out[24]:
                                                                                                - 1.0
                                                -0.7
                                                             -0.059 0.029
                          Rank -
                                         -0.35
                                                       -0.28
                                                                            -0.27
                                                                                    -0.47
                                                                                                - 0.8
               Influence Score -
                                                0.37
                                                       0.049
                                                               0.17
                                                                     -0.072
                                                                            0.032
                                                                                    0.23
                                                                                                - 0.6
                      Followers -
                                  -0.7
                                         0.37
                                                              0.068
                                                                      -0.11
                                                                             0.26
                                                                                    0.67
                                                  1
                                                       0.35
                                                                                                 - 0.4
                     Avg. Likes -
                                 -0.28
                                         0.049
                                                0.35
                                                         1
                                                              -0.35
                                                                      0.79
                                                                              0.9
                                                                                    0.36
                                                                                                - 0.2
                          Posts -- 0.059
                                         0.17
                                                0.068
                                                       -0.35
                                                                1
                                                                      -0.33
                                                                             -0.29
                                                                                    0.24
                                                                                                - 0.0
                                                                                   0.0016
              60-Day Eng Rate - 0.029
                                        -0.072
                                                -0.11
                                                       0.79
                                                              -0.33
                                                                       1
                                                                             0.87
                                                                                                 -0.2
           New Post Avg. Likes - -0.27
                                         0.032
                                                0.26
                                                        0.9
                                                              -0.29
                                                                      0.87
                                                                               1
                                                                                    0.35
                                                                                                 -0.4
                    Total Likes -
                                 -0.47
                                         0.23
                                                0.67
                                                       0.36
                                                               0.24
                                                                     -0.0016
                                                                             0.35
                                                                                                   -0.6
                                                        Avg. Likes
                                                                      60-Day Eng Rate
                                                                              New Post Avg. Likes
                                          nfluence Score
                                                                                     Total Likes
                                                 -ollowers
In [25]:
          highly_correlated = [
               ('New Post Avg. Likes', 'Avg. Likes', 0.9),
               ('60-Day Eng Rate', 'New Post Avg. Likes', 0.87),
               ('60-Day Eng Rate', 'Avg. Likes', 0.79),
               ('Total Likes', 'Followers', 0.67)
           ]
In [26]: fig, axes = plt.subplots(nrows=2, ncols=2, figsize=(12, 10))
           colors = ['teal', 'crimson', 'seagreen', 'goldenrod']
           title = ['darkgoldenrod', 'darkolivegreen', 'darkcyan', 'mediumvioletred']
           for i, (x_col, y_col, corr) in enumerate(highly_correlated):
               row = i // 2
               col = i \% 2
               ax = axes[row, col]
               # Scatter plot
               ax.scatter(df[x_col], df[y_col], color=colors[i], marker='o', alpha=0.4)
               # Set title with correlation coefficient
               ax.set_title(f'Correlation: {corr:.2f}', color=title[i], fontsize=16)
               # Label axes
               ax.set_xlabel(x_col, color='royalblue', fontsize=12)
               ax.set_ylabel(y_col, color='slateblue', fontsize=12)
          # Adjust Layout
```

```
plt.tight_layout()

# Show the plots
plt.show()
```



# 2) What is the frequency distribution of the following features?

Influence ScoreFollowersPosts

### Frequency Distribution for Influence Score

```
In [27]: influence_score_distribution = df['Influence Score'].value_counts().reset_index().r
influence_score_distribution
```

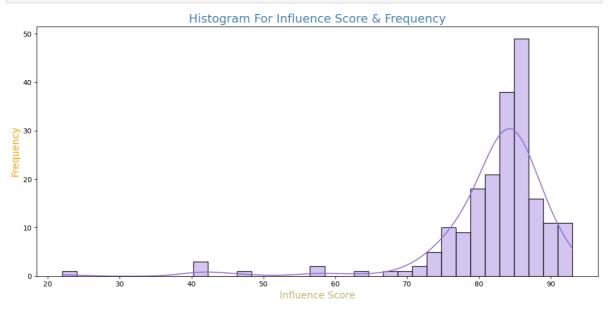
	Influence Score	Frequency
0	85	30
1	83	20
2	86	19
3	84	18
4	82	12
5	80	12
6	87	9
7	81	9
8	90	7
9	88	7
10	76	6
11	79	6
12	91	6
13	78	5
14	77	4
15	92	4
16	75	4
17	89	4
18	74	3
19	73	2
20	42	2
21	70	1
22	93	1
23	22	1
24	57	1
25	58	1
26	47	1
27	72	1
28	68	1
29	41	1
30	71	1
31	63	1

Out[27]:

```
In [28]: plt.figure(figsize=(12, 6))
# plt.subplot(131)
sns.histplot(data=df, x='Influence Score', color='mediumpurple', kde=True, common_r
plt.title('Histogram For Influence Score & Frequency', color='steelblue', fontsize=
```

```
plt.xlabel('Influence Score', color='darkkhaki', fontsize=14)
plt.ylabel('Frequency', color='orange', fontsize=14)

plt.tight_layout()
plt.show()
```



### **Frequency Distribution for Followers**

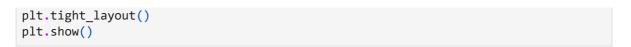
In [29]: followers\_distribution = df['Followers'].value\_counts().reset\_index().rename(column
followers\_distribution

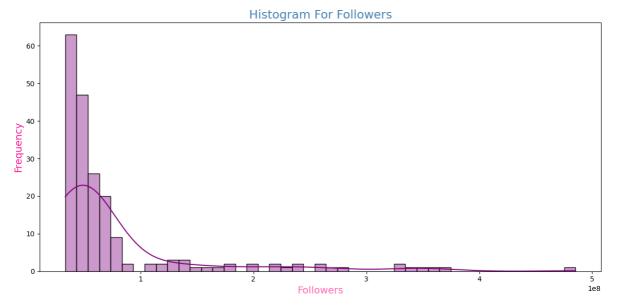
Out[29]:		Followers	Frequency
	0	36000000.0	3
	1	33600000.0	3
	2	68100000.0	3
	3	33800000.0	3
	4	52900000.0	3
	•••		
	167	64700000.0	1
	168	64400000.0	1
	169	63600000.0	1
	170	63400000.0	1
	171	33400000.0	1

172 rows × 2 columns

```
In [30]: plt.figure(figsize=(12, 6))
# plt.subplot(131)
sns.histplot(data=df, x='Followers', color='purple', kde=True, common_norm=False, a

plt.title('Histogram For Followers', color='steelblue', fontsize=17)
plt.xlabel('Followers', color='hotpink', fontsize=14)
plt.ylabel('Frequency', color='deeppink', fontsize=14)
```





### **Frequency Distribution for Posts**

```
In [31]: posts_distribution = df['Posts'].value_counts().reset_index().rename(columns={'index
    posts_distribution
```

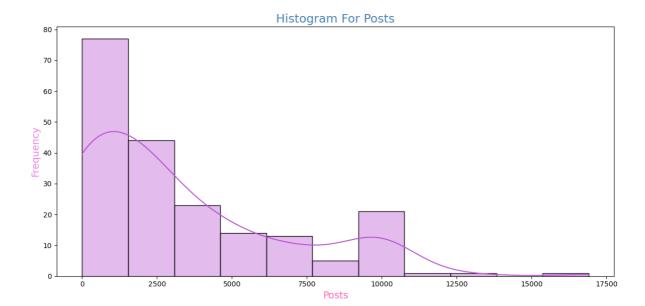
out[31]:		Posts	Frequency
	0	10000.0	11
	1	1200.0	9
	2	2000.0	5
	3	1900.0	5
	4	2300.0	4
	•••		
	106	5600.0	1
	107	66.0	1
	108	7000.0	1
	109	10100.0	1
	110	3800.0	1

111 rows × 2 columns

```
In [32]: plt.figure(figsize=(12, 6))
# plt.subplot(131)
sns.histplot(data=df, x='Posts', color='mediumorchid', kde=True, common_norm=False,

plt.title('Histogram For Posts', color='steelblue', fontsize=17)
plt.xlabel('Posts', color='hotpink', fontsize=14)
plt.ylabel('Frequency', color='violet', fontsize=14)

plt.tight_layout()
plt.show()
```



#### Left-Skewed Distribution for Influencers:

This could imply that most influencers in this dataset have higher influence scores, while there are a few with lower scores.

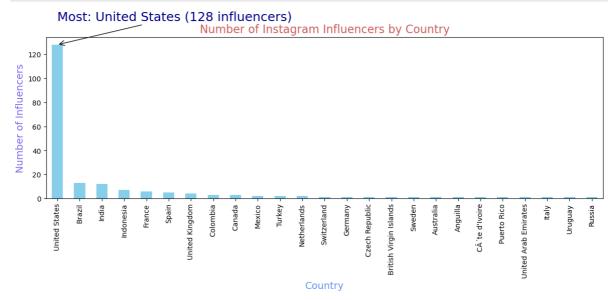
The long tail on the left side represents outliers or influencers with exceptionally low influence scores.

### Right-Skewed Distribution for Posts and Followers:

For "Posts," this could indicate that most influencers post infrequently, but there are a few who are extremely prolific.

For "Followers," it suggests that many influencers have a moderate number of followers, but there are notable exceptions with a massive following.

# 3) Which country houses the highest number of Instagram Influencers?



# 4) Who are the top 10 influencers in the given dataset based on the following features

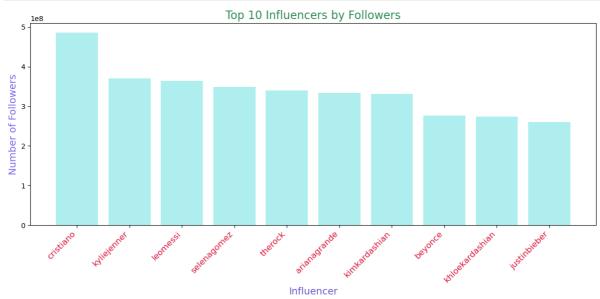


### Top 10 'Influencers' based on 'Followers'

```
In [34]: top_followers = df.sort_values(by='Followers', ascending=False).head(10)
top_followers[['Channel Info', 'Followers']]
```

Out[34]:		<b>Channel Info</b>	Followers
	0	cristiano	485200000.0
	1	kyliejenner	370700000.0
	2	leomessi	363900000.0
	3	selenagomez	348800000.0
	4	therock	339400000.0
	5	arianagrande	333000000.0
	6	kimkardashian	330700000.0
	7	beyonce	276100000.0
	8	khloekardashian	273900000.0
	9	justinbieber	260000000.0

```
In [35]: plt.figure(figsize=(12, 6))
    plt.bar(top_followers['Channel Info'], top_followers['Followers'], color='paleturque
    plt.title('Top 10 Influencers by Followers', fontsize=16, color='seagreen')
    plt.xlabel('Influencer', fontsize=14, color='slateblue')
    plt.ylabel('Number of Followers', fontsize=14, color='mediumslateblue')
    plt.xticks(rotation=45, ha='right', color='crimson', fontsize=12)
    plt.tight_layout()
    plt.show()
```



### Top 10 'Influencers' based on 'Avg. Likes'

```
In [36]: top_avg_likes = df.sort_values(by='Avg. Likes', ascending=False).head(10)
top_avg_likes[['Channel Info', 'Avg. Likes']]
```

```
Channel Info
Out[36]:
                                 Avg. Likes
             96
                                15400000.0
            131
                               14400000.0
                           j.m
                          rkive 10600000.0
            165
                                 8700000.0
              0
                      cristiano
             32
                     billieeilish
                                 8400000.0
              1
                    kyliejenner
                                 8200000.0
              2
                      leomessi
                                  6700000.0
              3
                  selenagomez
                                 6100000.0
             38
                    lalalalisa_m
                                  6000000.0
                                  5900000.0
             22
                       zendaya
```

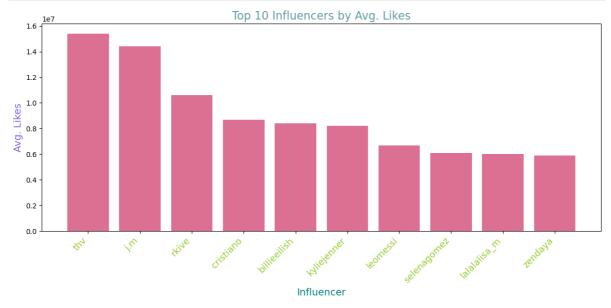
```
In [37]: plt.figure(figsize=(12, 6))
    plt.bar(top_avg_likes['Channel Info'], top_avg_likes['Avg. Likes'], color='paleviol
```

```
plt.title('Top 10 Influencers by Avg. Likes', fontsize=16, color='cadetblue')

plt.xlabel('Influencer', fontsize=14, color='teal')
plt.ylabel('Avg. Likes', fontsize=14, color='mediumslateblue')

plt.xticks(rotation=45, ha='right', color='yellowgreen', fontsize=13)

plt.tight_layout()
plt.show()
```



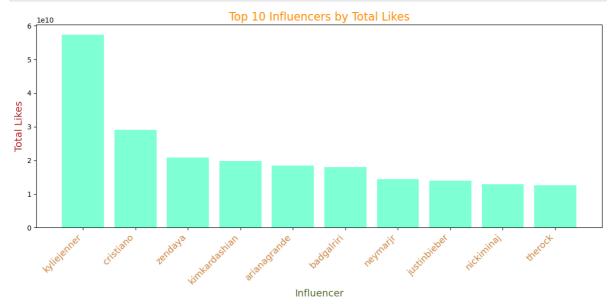
### Top 10 'Influencers' based on 'Total Likes'

```
In [38]: top_total_likes = df.sort_values(by='Total Likes', ascending=False).head(10)
top_total_likes[['Channel Info', 'Total Likes']]
```

```
Out[38]:
                Channel Info
                                 Total Likes
            1
                   kyliejenner 5.740000e+10
            0
                     cristiano 2.910000e+10
           22
                     zendaya 2.080000e+10
               kimkardashian
                             1.980000e+10
            5
                             1.850000e+10
                 arianagrande
           25
                    badgalriri
                             1.800000e+10
           19
                             1.440000e+10
                    neymarjr
            9
                  justinbieber 1.400000e+10
           16
                   nickiminaj 1.290000e+10
                      therock 1.260000e+10
```

```
In [39]: plt.figure(figsize=(12, 6))
    plt.bar(top_total_likes['Channel Info'], top_total_likes['Total Likes'], color='aqu
    plt.title('Top 10 Influencers by Total Likes', fontsize=16, color='darkorange')
    plt.xlabel('Influencer', fontsize=14, color='darkolivegreen')
    plt.ylabel('Total Likes', fontsize=14, color='firebrick')
```

```
plt.xticks(rotation=45, ha='right', color='peru', fontsize=13)
plt.tight_layout()
plt.show()
```



# 5) Describe the relationship between the following pairs of features using a suitable graph

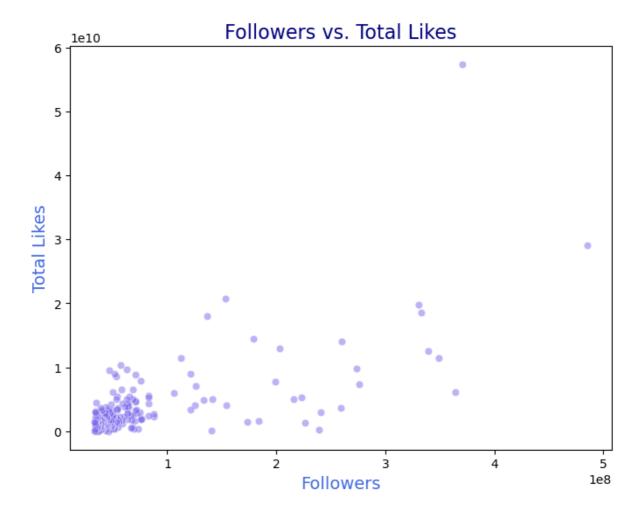


- Followers and Total Likes
- Followers and Influence Score
- Posts and Average likes
- Posts and Influence Score

### Relationship between Followers and Total Likes

```
In [40]: plt.figure(figsize=(8, 6))
    sns.scatterplot(data=df, x='Followers', y='Total Likes', color='mediumslateblue', a
    plt.title('Followers vs. Total Likes', fontsize=16, color='navy')
    plt.xlabel('Followers', fontsize=14, color='royalblue')
    plt.ylabel('Total Likes', fontsize=14, color='royalblue')
# plt.grid(True)
Toxt(0, 0 E 'Total Likes')
```

Out[40]: Text(0, 0.5, 'Total Likes')

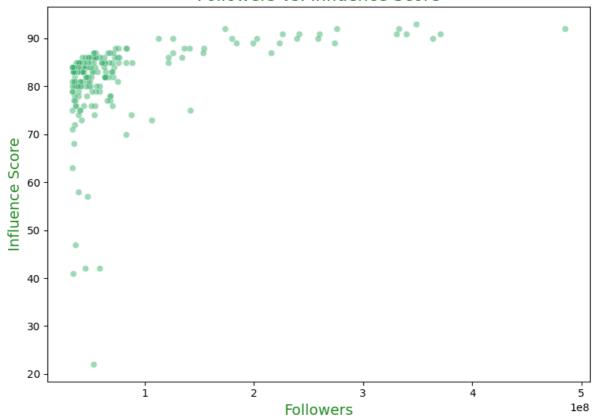


### Relationship between Followers and Influence Score

```
In [41]: plt.figure(figsize=(8, 6))
    sns.scatterplot(data=df, x='Followers', y='Influence Score', color='mediumseagreen'
    plt.title('Followers vs. Influence Score', fontsize=16, color='darkgreen')
    plt.xlabel('Followers', fontsize=14, color='forestgreen')
    plt.ylabel('Influence Score', fontsize=14, color='forestgreen')

plt.tight_layout()
    plt.show()
```

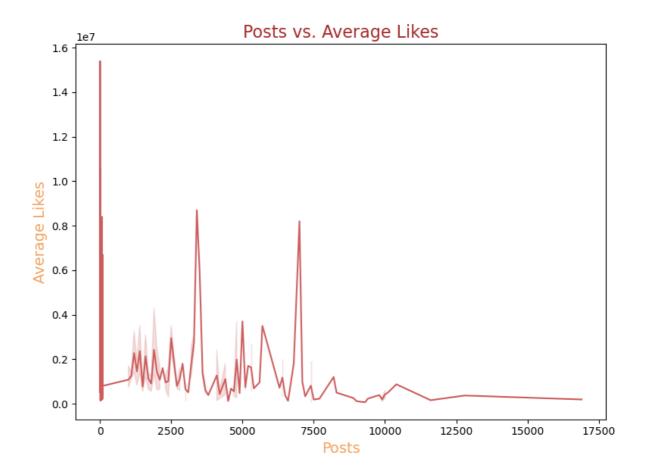
### Followers vs. Influence Score



### Relationship between Posts and Average Likes

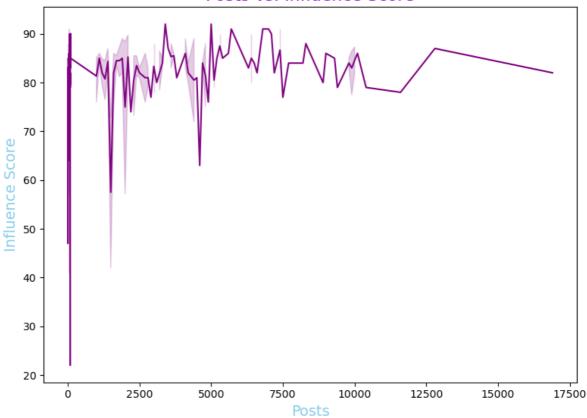
```
In [42]: plt.figure(figsize=(8, 6))
    sns.lineplot(data=df, x='Posts', y='Avg. Likes', color='indianred')
    plt.title('Posts vs. Average Likes', fontsize=16, color='brown')
    plt.xlabel('Posts', fontsize=14, color='sandybrown')
    plt.ylabel('Average Likes', fontsize=14, color='sandybrown')
    plt.tight_layout()

plt.show()
```



### Relationship between Posts and Influence Score

#### Posts vs. Influence Score



### Conclusion

- 1. **Correlation Analysis:** I conducted correlation analysis to identify any correlated features in the dataset. Notable correlations included a strong positive correlation between "Total Likes" and "Followers," as well as a moderate negative correlation between "Influence Score" and "Followers."
- 2. **Frequency Distributions:** I examined the frequency distributions of three essential features: "Influence Score," "Followers," and "Posts." The analysis revealed varying distributions for each feature, with "Followers" and "Posts" showing right-skewed distributions, indicating a majority of influencers with lower values and a few outliers with high counts.
- 3. **Geographic Distribution:** I determined which country housed the highest number of Instagram influencers and created a bar chart to visualize the counts of influencers in different countries. This analysis helps in understanding the global distribution of influencers in the dataset.
- 4. **Top Influencers:** I identified the top 10 influencers based on "Followers," "Average Likes," and "Total Likes." Creating bar charts for each feature allowed us to showcase the most influential and popular influencers in the dataset.
- 5. **Relationship Analysis:** I explored the relationships between feature pairs using suitable graphs. Scatter plots were used to examine the relationships between "Followers" and "Total Likes" as well as "Followers" and "Influence Score." Line plots were employed to analyze the relationships between "Posts" and "Average Likes" and "Posts" and

"Influence Score." These visualizations unveiled patterns and correlations between the features.		
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