Project

Youtuber Streamer Analysis EDA

```
import pandas as pd
In [1]:
          import numpy as np
          import matplotlib.pyplot as plt
          import seaborn as sns
          import warnings
          warnings.filterwarnings("ignore")
          data = pd.read_csv('youtubers_df.csv')
In [2]:
          data.shape
In [3]:
          (1000, 9)
Out[3]:
          data.head()
In [4]:
Out[4]:
             Rank
                       Username
                                    Categories
                                                 Suscribers
                                                            Country
                                                                            Visits
                                                                                       Likes Comments
                                      Música y
                                                249500000.0
                                                                          86200.0
                                                                                                    78.0
          0
                                                                India
                                                                                      2700.0
                                                                                                            http://youtube.com/channel/UCq-Fj5jknLsUf-N
                           tseries
                                         baile
                                   Videojuegos,
                                                              Estados
          1
                 2
                          MrBeast
                                                183500000.0
                                                                      117400000.0
                                                                                   5300000.0
                                                                                                         http://youtube.com/channel/UCX6OQ3DkcsbYNE
                                        Humor
                                                              Unidos
                                                                                                          http://youtube.com/channel/UCbCmjCuTUZos6
          2
                 3
                      CoComelon
                                     Educación
                                                165500000.0 Unknown
                                                                        7000000.0
                                                                                     24700.0
                                                                                                     0.0
          3
                 4
                         SETIndia
                                          NaN
                                               162600000.0
                                                                India
                                                                          15600.0
                                                                                       166.0
                                                                                                         http://youtube.com/channel/UCpEhnqL0y41EpW
                                    Animación,
                 5 KidsDianaShow
                                               113500000.0 Unknown
                                                                        3900000.0
                                                                                     12400.0
                                                                                                     0.0
                                                                                                            http://youtube.com/channel/UCk8GzjMOrta8y.
                                      Juguetes
          data.tail()
In [5]:
```

Out[5]:		Rank	Username	Categories	Suscribers	Country	Visits	Likes	Comments	
	995	996	hamzymukbang	NaN	11700000.0	Estados Unidos	397400.0	14000.0	124.0	http://youtube.com/channel/UCPKNKldggioffXPl
	996	997	Adaahqueen	NaN	11700000.0	India	1100000.0	92500.0	164.0	http://youtube.com/channel/UCk3fFpql5kDMf_n
	997	998	Little Angel Indonesia	Música y baile	11700000.0	Unknown	211400.0	745.0	0.0	http://youtube.com/channel/UCdrHrQf0o0TO8YE
	998	999	PenMultiplex	NaN	11700000.0	India	14000.0	81.0	1.0	http://youtube.com/channel/UCObyBrdrtQ20BU9
	999	1000	OneindiaHindi	Noticias y Política	11700000.0	India	2200.0	31.0	1.0	http://youtube.com/channel/UCOjgc1p2hJ4GZi6p
	data.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 1000 entries, 0 to 999 Data columns (total 9 columns): # Column Non-Null Count Dtype</class>									
[7]:	<pre>Index(['Rank', 'Username', 'Categories', 'Suscribers', 'Country', 'Visits',</pre>									
	Char		column name							

data.rename(columns={'Suscribers':'Subscribers'},inplace=True)

```
data.columns
 In [9]:
         Index(['Rank', 'Username', 'Categories', 'Subscribers', 'Country', 'Visits',
 Out[9]:
                 'Likes', 'Comments', 'Links'],
                dtype='object')
          Dealing missing values
          data.isnull().sum()
In [10]:
                           0
          Rank
Out[10]:
         Username
                           0
          Categories
                         306
          Subscribers
                           0
          Country
          Visits
                           0
          Likes
                           0
          Comments
                           0
          Links
          dtype: int64
          Fill Missing values
          data['Categories'].fillna('Unknown', inplace = True)
In [11]:
          To Check
In [12]:
          data.isnull().sum()
          Rank
                         0
Out[12]:
          Username
                         0
          Categories
          Subscribers
          Country
                         0
          Visits
                         0
          Likes
                         0
          Comments
          Links
          dtype: int64
```

data.describe()

In [13]:

Out[13]:

		Rank	Subscribers	Visits	Likes	Comments
	count	1000.000000	1.000000e+03	1.000000e+03	1.000000e+03	1000.000000
	mean	500.500000	2.189440e+07	1.209446e+06	5.363259e+04	1288.768000
	std	288.819436	1.682775e+07	5.229942e+06	2.580457e+05	6778.188308
	min	1.000000	1.170000e+07	0.000000e+00	0.000000e+00	0.000000
	25%	250.750000	1.380000e+07	3.197500e+04	4.717500e+02	2.000000
	50%	500.500000	1.675000e+07	1.744500e+05	3.500000e+03	67.000000
	75%	750.250000	2.370000e+07	8.654750e+05	2.865000e+04	472.000000
	max	1000.000000	2.495000e+08	1.174000e+08	5.300000e+06	154000.000000

In [14]: data[['Subscribers','Likes', 'Comments']].describe()

Out[14]:		Subscribers	Likes	Comments
	count	1.000000e+03	1.000000e+03	1000.000000
	mean	2.189440e+07	5.363259e+04	1288.768000
	std	1.682775e+07	2.580457e+05	6778.188308
	min	1.170000e+07	0.000000e+00	0.000000
	25%	1.380000e+07	4.717500e+02	2.000000
	50%	1.675000e+07	3.500000e+03	67.000000
	75%	2.370000e+07	2.865000e+04	472.000000
	max	2.495000e+08	5.300000e+06	154000.000000

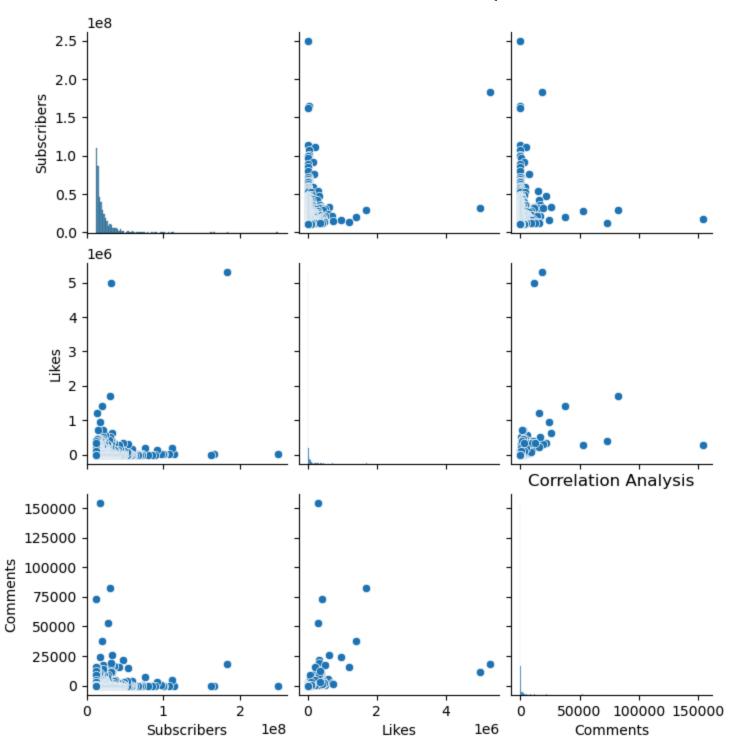
```
Top Content Creators by Subscribers:
             Username Subscribers
             tseries 249500000.0
0
             MrBeast 183500000.0
1
           CoComelon 165500000.0
2
3
            SETIndia 162600000.0
4
       KidsDianaShow 113500000.0
           PewDiePie 111500000.0
6 LikeNastyaofficial 107500000.0
         VladandNiki 101400000.0
8
                      99700000.0
      zeemusiccompany
                 WWE
                       97200000.0
```

Trending Analysis

Using Matplotlib library, Correlation Analysis

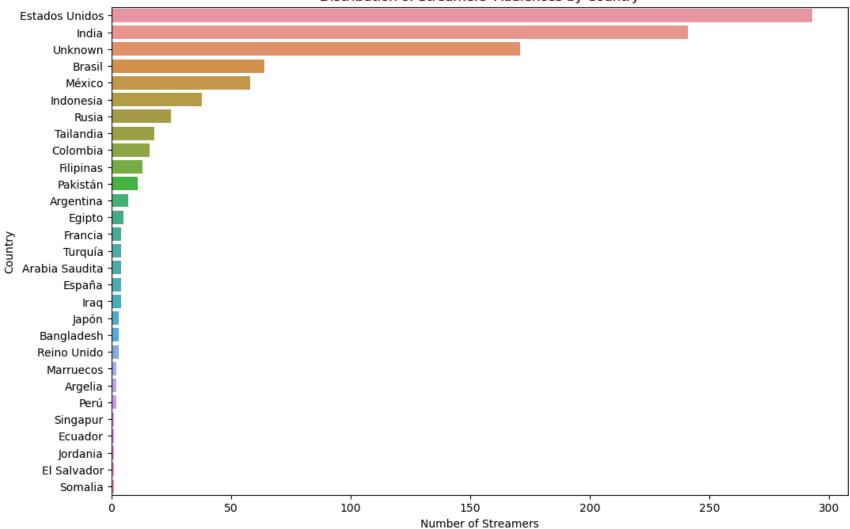
```
In [17]: plt.figure(figsize=(12, 8))
    sns.pairplot(data[['Subscribers', 'Likes', 'Comments']])
    plt.title('Correlation Analysis')
    plt.show()
```

<Figure size 1200x800 with 0 Axes>



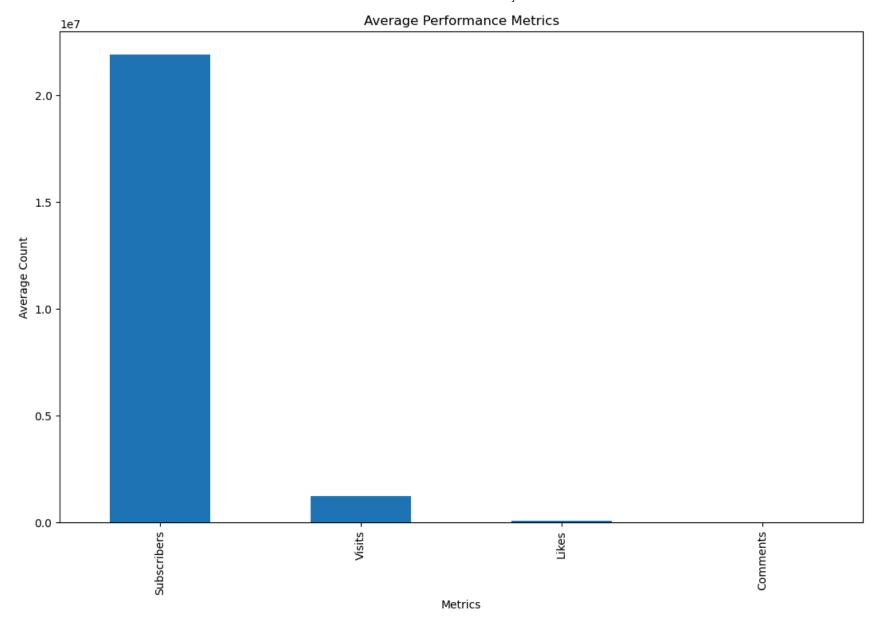
Analysis of audience

Distribution of Streamers' Audiences by Country



Matrics Performance

```
In [19]: average_metrics = data[['Subscribers', 'Visits', 'Likes', 'Comments']].mean()
    plt.figure(figsize=(13, 8))
    average_metrics.plot(kind='bar')
    plt.title('Average Performance Metrics')
    plt.xlabel('Metrics')
    plt.ylabel('Average Count')
    plt.show()
```

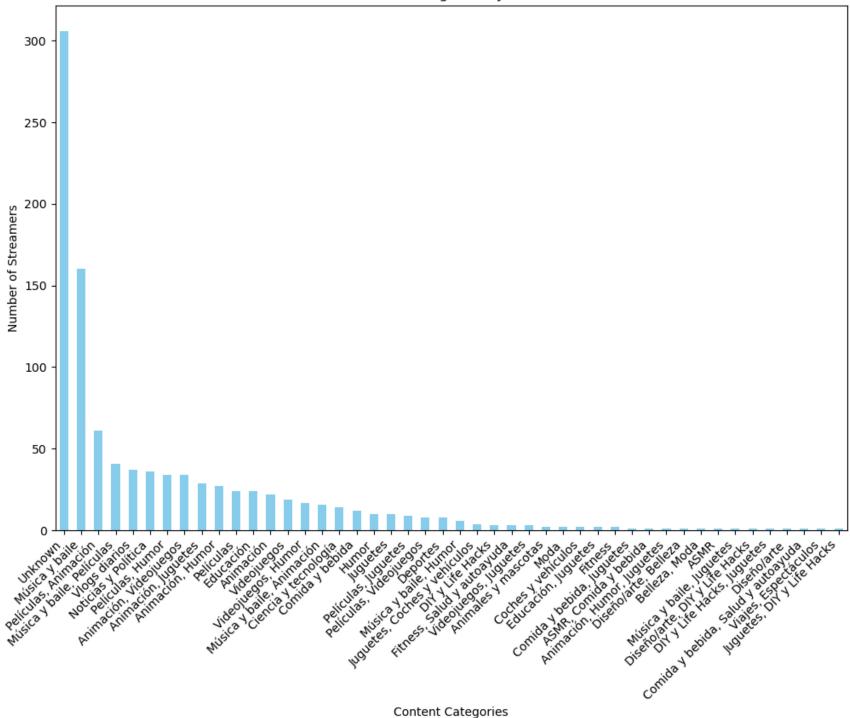


To check which content category

```
In [20]: category_distribution = data['Categories'].value_counts()
    print(category_distribution)
```

Categories	
Unknown	306
Música y baile	160
Películas, Animación	61
Música y baile, Películas	41
Vlogs diarios	37
Noticias y Política	36
Películas, Humor	34
Animación, Videojuegos	34
Animación, Juguetes	29
Animación, Humor	27
Películas	24
Educación	24
Animación	22
Videojuegos	19
Videojuegos, Humor	17
Música y baile, Animación	16
Ciencia y tecnología	14
Comida y bebida	12
Humor	10
Juguetes Polículas Juguetes	10 9
Películas, Juguetes Películas, Videojuegos	8
Deportes	8
Música y baile, Humor	6
Juguetes, Coches y vehículos	4
DIY y Life Hacks	3
Fitness, Salud y autoayuda	3
Videojuegos, Juguetes	3
Animales y mascotas	2
Moda	2
Coches y vehículos	2
Educación, Juguetes	2
Fitness	2
Comida y bebida, Juguetes	1
ASMR, Comida y bebida	1
Animación, Humor, Juguetes	1
Diseño/arte, Belleza	1
Belleza, Moda	1
ASMR	1
Música y baile, Juguetes	1
Diseño/arte, DIY y Life Hacks	1
DIY y Life Hacks, Juguetes	1
Diseño/arte	1
Comida y bebida, Salud y autoayuda	1

Distribution of Content Categories by Number of Streamers



Comparison, Standardization

Top-performing Content Creators:

Top-performing Content Creators:								
	Username	Subscribers	Visits	Likes	Comments			
1	MrBeast	183500000.0	117400000.0	5300000.0	18500.0			
5	PewDiePie	111500000.0	2400000.0	197300.0	4900.0			
26	dudeperfect	59700000.0	5300000.0	156500.0	4200.0			
34	TaylorSwift	54100000.0	4300000.0	300400.0	15000.0			
39	JuegaGerman	48600000.0	2000000.0	117100.0	3000.0			
43	A4a4a4a4	47300000.0	9700000.0	330400.0	22000.0			
58	Mikecrack	43400000.0	2200000.0	183400.0	1800.0			
62	KimberlyLoaiza	42100000.0	5300000.0	271300.0	16000.0			
64	luisitocomunica	41100000.0	2500000.0	128900.0	1800.0			
70	JessNoLimit	39600000.0	1300000.0	73500.0	1600.0			
96	TotalGaming093	36300000.0	1500000.0	129400.0	4900.0			
98	TechnoGamerzOfficial	35600000.0	6200000.0	341800.0	16500.0			
100	markiplier	35500000.0	2100000.0	126500.0	3800.0			
122	AboFlah	32700000.0	3300000.0	382000.0	11400.0			
123	MRINDIANHACKER	32600000.0	6500000.0	617400.0	26000.0			
131	fedevigevani	32000000.0	7700000.0	412200.0	17000.0			
132	dream	31900000.0	3300000.0	309200.0	19000.0			
136	MrBeast2	31300000.0	83100000.0	5000000.0	11600.0			
145	jacksepticeye	30400000.0	1600000.0	83400.0	2300.0			
153	DaFuqBoom	29800000.0	52700000.0	1700000.0	82800.0			
176	CrazyXYZ	27800000.0	4200000.0	284100.0	8600.0			
177	DanTDM	27800000.0	3500000.0	285000.0	52500.0			
179	brentrivera	27600000.0	6400000.0	154100.0	5000.0			
180	NichLmao	27500000.0	1500000.0	85800.0	1600.0			
195	nickiminaj	26100000.0	1600000.0	98300.0	7600.0			
206	AlejoIgoa	25700000.0	5700000.0	208400.0	1700.0			
207	ZHCYT	25700000.0	2600000.0	127300.0	2200.0			
234	rug	24300000.0	3200000.0	85300.0	5100.0			
238	alanbecker	24300000.0	7600000.0	582600.0	5900.0			
241	juandediospantojaa	24000000.0	3000000.0	133200.0	3600.0			
266	DrossRotzank	23100000.0	1700000.0	105900.0	3900.0			
272	AmiRodrigueZZ	22900000.0	4300000.0	294400.0	1300.0			
278	StokesTwins	22700000.0	11700000.0	235000.0	10000.0			
281	SSundee	22700000.0	1700000.0	59800.0	1800.0			
282	souravjoshivlogs7028	22700000.0	5600000.0	382300.0	8900.0			
288	VillageCookingChannel	22500000.0	21500000.0	321500.0	5900.0			
300	alfredolarin	21900000.0	12900000.0	707600.0	2100.0			
302	royaltyfam	21900000.0	4700000.0	67000.0	6600.0			

In []: