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Code

JupyterLab Python 3 (ipykernel)

[1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from datetime import datetime
```

[2]:
```
df = pd.read_csv('C:\\Users\\aadil\\Downloads\\USvideos.csv')
```

[3]:
```
df.head()
```

[3]:

	video_id	trending_date	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comme
0	2kyS6SvSYSE	17.14.11	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22	2017-11-13T17:13:01.000Z	SHANtell martin	748374	57527	2966	
1	1ZAPwfrtAFY	17.14.11	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24	2017-11-13T07:30:00.000Z	last week tonight trump presidency|"last week ...	2418783	97185	6146	
2	5qpjK5DgCt4	17.14.11	Racist Superman | Rudy Mancuso, King Bach & Le...	Rudy Mancuso	23	2017-11-12T19:05:24.000Z	racist superman|"rudy"|"mancuso"|"king"|"bach"...	3191434	146033	5339	
3	puqaWrEC7tY	17.14.11	Nickelback Lyrics: Real or Fake?	Good Mythical Morning	24	2017-11-13T11:00:04.000Z	rhett and link|"gmm"|"good mythical morning"|"...	343168	10172	666	

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Code

JupyterLab Python 3 (ipykernel)

3	puqaWrEC7tY	17.14.11	Lyrics: Real or Fake?	Good Mythical Morning	24	2017-11-13T11:00:04.000Z	rhett and link|"gmm"|"good mythical morning"|"...	343168	10172	666
4	d380meD0W0M	17.14.11	I Dare You: GOING BALD!?	nigahiga	24	2017-11-12T18:01:41.000Z	ryan|"higa"|"higatv"|"nigahiga"|"i dare you"|"...	2095731	132235	1989

[4]:
```
df.shape
```

[4]:
```
(40949, 16)
```

[5]:
```
df = df.drop_duplicates()
df.shape
```

[5]:
```
(40901, 16)
```

[6]:
```
df.describe()
```

[6]:

	category_id	views	likes	dislikes	comment_count
count	40901.000000	4.090100e+04	4.090100e+04	4.090100e+04	4.090100e+04
mean	19.970588	2.360678e+06	7.427173e+04	3.711722e+03	8.448567e+03
std	7.569362	7.397719e+06	2.289999e+05	2.904624e+04	3.745139e+04
min	1.000000	5.490000e+02	0.000000e+00	0.000000e+00	0.000000e+00
25%	17.000000	2.419720e+05	5.416000e+03	2.020000e+02	6.130000e+02
50%	24.000000	6.810640e+05	1.806900e+04	6.300000e+02	1.855000e+03
75%	25.000000	1.821926e+06	5.533800e+04	1.936000e+03	5.752000e+03
max	43.000000	2.252119e+08	5.613827e+06	1.674420e+06	1.361580e+06

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Code

JupyterLab Python 3 (ipykernel)

[8]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 40901 entries, 0 to 40948
Data columns (total 16 columns):
 #   Column                  Non-Null Count  Dtype 
---  ------                  --------------  ----- 
 0   video_id                40901 non-null  object
 1   trending_date           40901 non-null  object
 2   title                   40901 non-null  object
 3   channel_title           40901 non-null  object
 4   category_id             40901 non-null  int64 
 5   publish_time            40901 non-null  object
 6   tags                    40901 non-null  object
 7   views                   40901 non-null  int64 
 8   likes                   40901 non-null  int64 
 9   dislikes                40901 non-null  int64 
 10  comment_count           40901 non-null  int64 
 11  thumbnail_link          40901 non-null  object
 12  comments_disabled       40901 non-null  bool  
 13  ratings_disabled        40901 non-null  bool  
 14  video_error_or_removed  40901 non-null  bool  
 15  description             40332 non-null  object
dtypes: bool(3), int64(5), object(8)
memory usage: 4.5+ MB
```

[9]:
```
columns_to_remove = ['thumbnail_link','description']
df = df.drop(columns=columns_to_remove)
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 40901 entries, 0 to 40948
Data columns (total 14 columns):
 #   Column                  Non-Null Count  Dtype 
---  ------                  --------------  ----- 
 0   video_id                40901 non-null  object
 1   trending_date           40901 non-null  object
```

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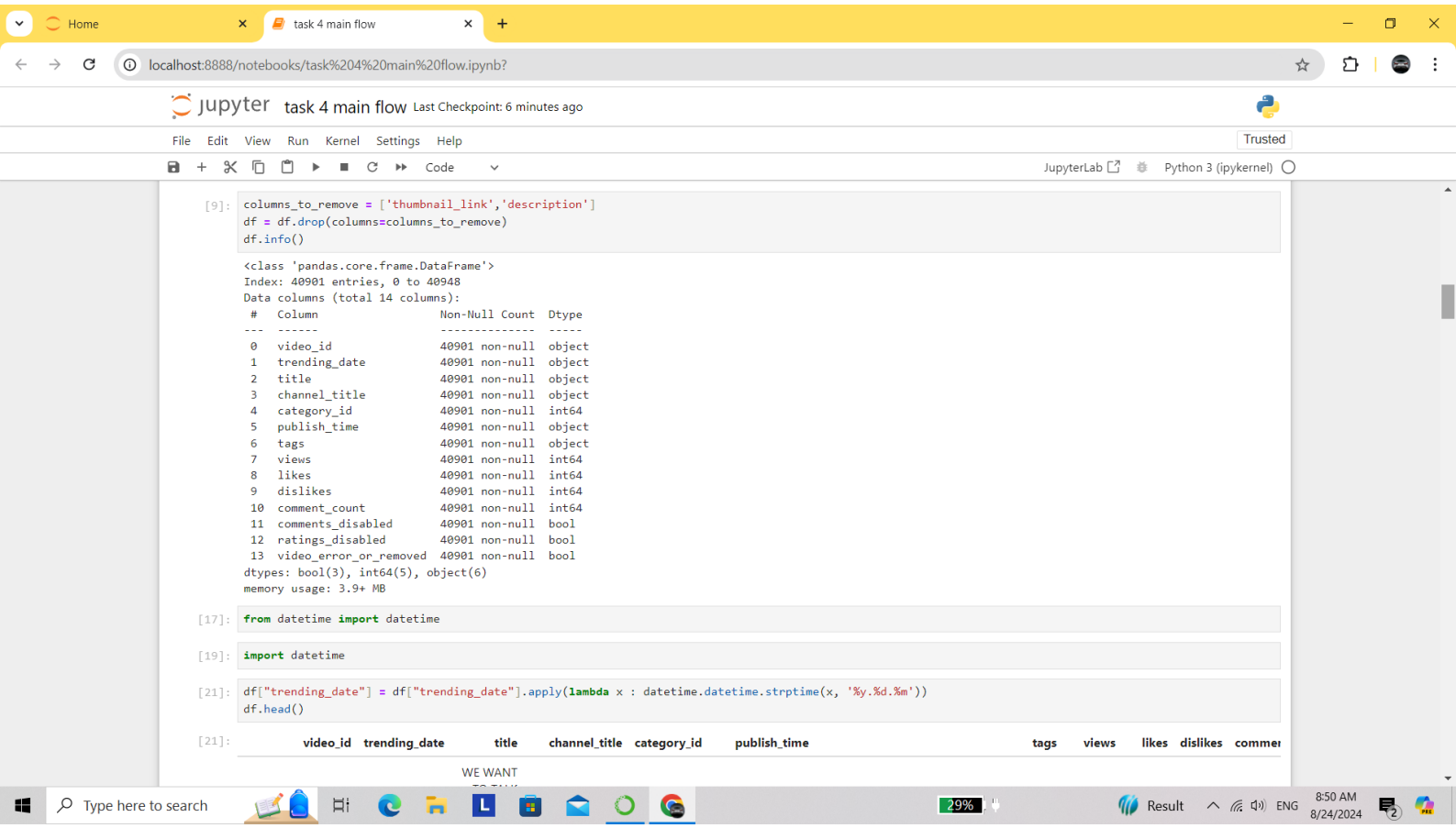
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Code
JupyterLab
Python 3 (ipykernel)
[9]:
columns_to_remove = ['thumbnail_link','description']
df = df.drop(columns=columns_to_remove)
df.info()
<class 'pandas.core.frame.DataFrame'>
Index: 40901 entries, 0 to 40948
Data columns (total 14 columns):
Column Non-Null Count Dtype
0 video_id 40901 non-null object
1 trending_date 40901 non-null object
2 title 40901 non-null object
3 channel_title 40901 non-null object
4 category_id 40901 non-null int64
5 publish_time 40901 non-null object
6 tags 40901 non-null object
7 views 40901 non-null int64
8 likes 40901 non-null int64
9 dislikes 40901 non-null int64
10 comment_count 40901 non-null int64
11 comments_disabled 40901 non-null bool
12 ratings_disabled 40901 non-null bool
13 video_error_or_removed 40901 non-null bool
dtypes: bool(3), int64(5), object(6)
memory usage: 3.9+ MB
[17]:
from datetime import datetime
[19]:
import datetime
[21]:
df["trending_date"] = df["trending_date"].apply(lambda x : datetime.datetime.strptime(x, '%y.%d.%m'))
df.head()
[21]:
video_id trending_date title channel_title category_id publish_time tags views likes dislikes comme
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Code

JupyterLab Python 3 (ipykernel)

[19]:
```
import datetime
```

[21]:
```
df["trending_date"] = df["trending_date"].apply(lambda x : datetime.datetime.strptime(x, '%y.%d.%m'))
df.head()
```

[21]:

	video_id	trending_date	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comme
0	2kyS6SvSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22	2017-11-13T17:13:01.000Z	SHANtell martin	748374	57527	2966	
1	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24	2017-11-13T07:30:00.000Z	last week tonight trump presidency|"last week ...	2418783	97185	6146	
2	5qpjK5DgCt4	2017-11-14	Racist Superman | Rudy Mancuso, King Bach & Le...	Rudy Mancuso	23	2017-11-12T19:05:24.000Z	racist superman|"rudy"|"mancuso"|"king"|"bach"...	3191434	146033	5339	
3	puqaWrEC7tY	2017-11-14	Nickelback Lyrics: Real or Fake?	Good Mythical Morning	24	2017-11-13T11:00:04.000Z	rhett and link|"gmm"|"good mythical morning"|"...	343168	10172	666	
4	d380meD0W0M	2017-11-14	I Dare You: GOING BALD!?	nigahiga	24	2017-11-12T18:01:41.000Z	ryan|"higa"|"higatv"|"nigahiga"|"i dare you"|"...	2095731	132235	1989	

[23]:
```
df['publish_time'] = pd.to_datetime(df['publish_time'])
df.head(2)
```

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Code

JupyterLab Python 3 (ipykernel)

[23]:
```
df['publish_time'] = pd.to_datetime(df['publish_time'])
df.head(2)
```

[23]:

	video_id	trending_date	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comment_count	comments_disabled
0	2kyS6SvSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22	2017-11-13 17:13:01+00:00	SHANtell martin	748374	57527	2966	15954	False
1	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24	2017-11-13 07:30:00+00:00	last week tonight trump presidency|"last week ...	2418783	97185	6146	12703	False

[25]:
```
df['publish_month'] = df['publish_time'].dt.month
df['publish_day'] = df['publish_time'].dt.day
df['publish_hour'] = df['publish_time'].dt.hour
df.head(2)
```

[25]:

	video_id	trending_date	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comment_count	comments_disabled
0	2kyS6SvSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22	2017-11-13 17:13:01+00:00	SHANtell martin	748374	57527	2966	15954	False
1	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24	2017-11-13 07:30:00+00:00	last week tonight trump presidency|"last week ...	2418783	97185	6146	12703	False

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Code

JupyterLab Python 3 (ipykernel)

[27]:
```
print (sorted(df["category_id"].unique()))
```
```
[1, 2, 10, 15, 17, 19, 20, 222, 23, 24, 25, 26, 27, 28, 29, 30, 43]
```

```
[1, 2, 10, 15, 17, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 43]
```

[27]:
```
[1, 2, 10, 15, 17, 19, 20, 222, 23, 24, 25, 26, 27, 28, 29, 30, 43]
```

[29]:
```
df['category_name'] = np.nan
df.loc[(df["category_id"] == 1), "category_name"] = 'Film and Animation'
df.loc[(df["category_id"] == 2), "category_name"] = 'Autos and Vehicles'
df.loc[(df["category_id"] == 10), "category_name"] = 'Music'
df.loc[(df["category_id"] == 15), "category_name"] = 'Pets and Animals'
df.loc[(df["category_id"] == 17), "category_name"] = 'Sports'
df.loc[(df["category_id"] == 19), "category_name"] = 'Travel and Events'
df.loc[(df["category_id"] == 20), "category_name"] = 'Gaming'
df.loc[(df["category_id"] == 22), "category_name"] = 'People and Blogs'
df.loc[(df["category_id"] == 23), "category_name"] = 'Comedy'
df.loc[(df["category_id"] == 24), "category_name"] = 'Entertainment'
df.loc[(df["category_id"] == 25), "category_name"] = 'News and Politics'
df.loc[(df["category_id"] == 26), "category_name"] = 'How to and Style'
df.loc[(df["category_id"] == 27), "category_name"] = 'Education'
df.loc[(df["category_id"] == 28), "category_name"] = 'Science and Technology'
df.loc[(df["category_id"] == 29), "category_name"] = 'Non Profits and Activities'
df.loc[(df["category_id"] == 30), "category_name"] = 'Movies'
df.loc[(df["category_id"] == 43), "category_name"] = 'Shows'

df.head()
```

```
C:\Users\aadil\AppData\Local\Temp\ipykernel_13612\3785163847.py:2: FutureWarning: Setting an item of incompatible dtype is deprecated and will raise an error in a future version of pandas. Value 'Film and Animation' has dtype incompatible with float64, please explicitly cast to a compatible dtype first.
  df.loc[(df["category_id"] == 1), "category_name"] = 'Film and Animation'
```

[29]:

	video_id	trending_date	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comment
			WE WANT TO TALK			2017-11-13					

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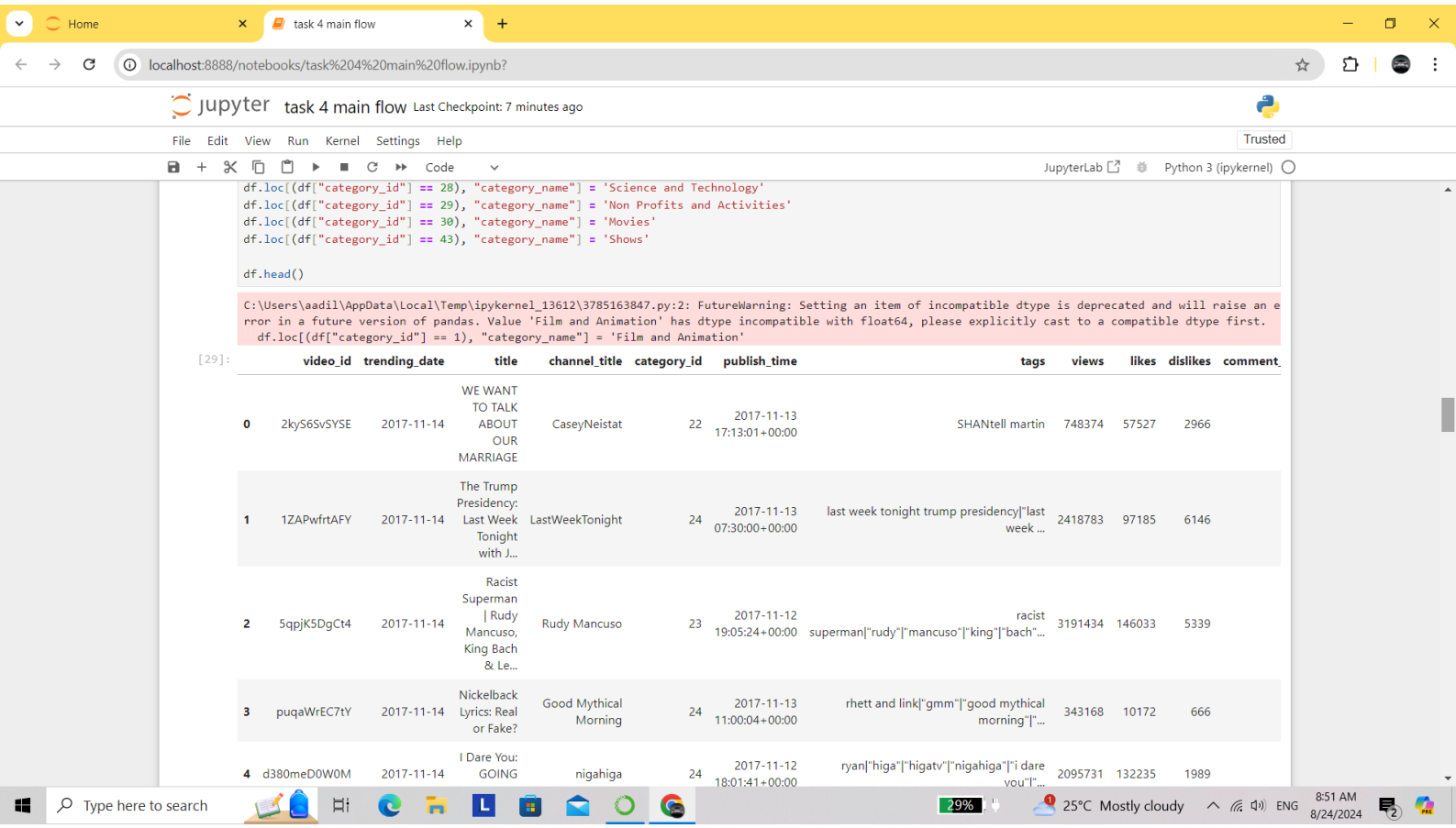
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Code
JupyterLab
Python 3 (ipykernel)
df.loc[(df["category_id"] == 28), "category_name"] = 'Science and Technology'
df.loc[(df["category_id"] == 29), "category_name"] = 'Non Profits and Activities'
df.loc[(df["category_id"] == 30), "category_name"] = 'Movies'
df.loc[(df["category_id"] == 43), "category_name"] = 'Shows'
df.head()
C:\Users\aadil\AppData\Local\Temp\ipykernel_13612\3785163847.py:2: FutureWarning: Setting an item of incompatible dtype is deprecated and will raise an error in a future version of pandas. Value 'Film and Animation' has dtype incompatible with float64, please explicitly cast to a compatible dtype first.
df.loc[(df["category_id"] == 1), "category_name"] = 'Film and Animation'
[29]:
video_id trending_date title channel_title category_id publish_time tags views likes dislikes comment_
0 2kyS6SvSYSE 2017-11-14 WE WANT TO TALK ABOUT OUR MARRIAGE CaseyNeistat 22 2017-11-13 17:13:01+00:00 SHANtell martin 748374 57527 2966
1 1ZAPwfrtAFY 2017-11-14 The Trump Presidency: Last Week Tonight with J... LastWeekTonight 24 2017-11-13 07:30:00+00:00 last week tonight trump presidency|"last week ... 2418783 97185 6146
2 5qpjK5DgCt4 2017-11-14 Racist Superman | Rudy Mancuso, King Bach & Le... Rudy Mancuso 23 2017-11-12 19:05:24+00:00 racist superman|"rudy"|"mancuso"|"king"|"bach"... 3191434 146033 5339
3 puqaWrEC7tY 2017-11-14 Nickelback Lyrics: Real or Fake? Good Mythical Morning 24 2017-11-13 11:00:04+00:00 rhett and link|"gmm"|"good mythical morning"|"... 343168 10172 666
4 d380meD0W0M 2017-11-14 I Dare You: GOING nigahiga 24 2017-11-12 18:01:41+00:00 ryan|"higa"|"higatv"|"nigahiga"|"i dare you"|"... 2095731 132235 1989
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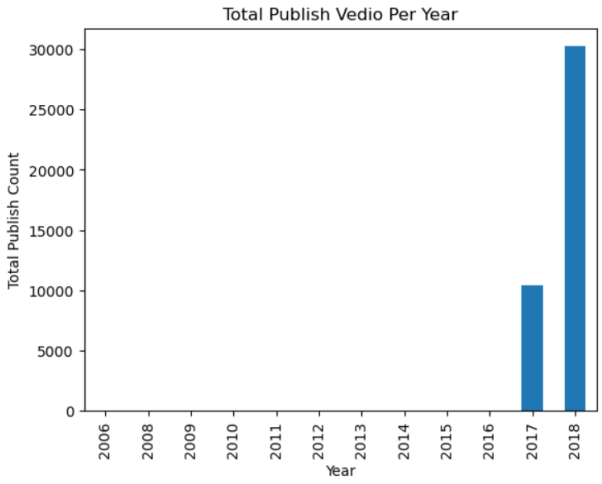
Code

JupyterLab Python 3 (ipykernel)

[31]:
```
df['year'] = df['publish_time'].dt.year
yearly_counts = df.groupby('year')['video_id'].count()

#create a bar chart
yearly_counts.plot(kind='bar', xlabel='Year', ylabel='Total Publish Count', title='Total Publish Vedio Per Year')

#show the chart
plt.show()
```



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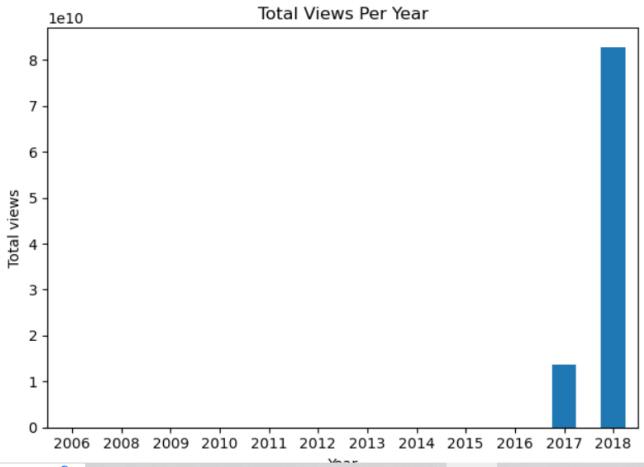
Code

JupyterLab Python 3 (ipykernel)

[33]:
```
#Group by year and sum the views for each year
yearly_views = df.groupby('year')['views'].sum()

#create a bar chart
yearly_views.plot(kind='bar', xlabel='Year', ylabel='Total views', title='Total Views Per Year')
plt.xticks(rotation=0)
plt.tight_layout()

#show the bar chart
plt.show()
```



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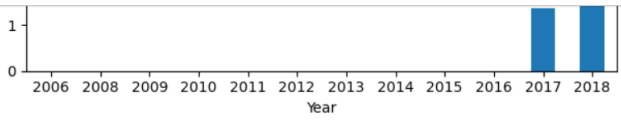
Code

JupyterLab Python 3 (ipykernel)

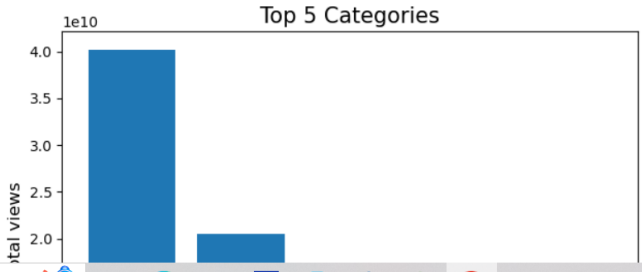


[39]:

```
# Group the data by 'category_name' and calculate the sum of 'views' in each category
category_views = df.groupby('category_name')['views'].sum().reset_index()

#Sort the categories by views in descending order
top_categories = category_views.sort_values(by='views',ascending=False).head(5)

#create a bar plot to visualize the top 5 categories
plt.bar(top_categories['category_name'], top_categories['views'])
plt.xlabel('Category Name',fontsize=12)
plt.ylabel('Total views',fontsize=12)
plt.title('Top 5 Categories',fontsize=15)
plt.tight_layout()
plt.show()
```



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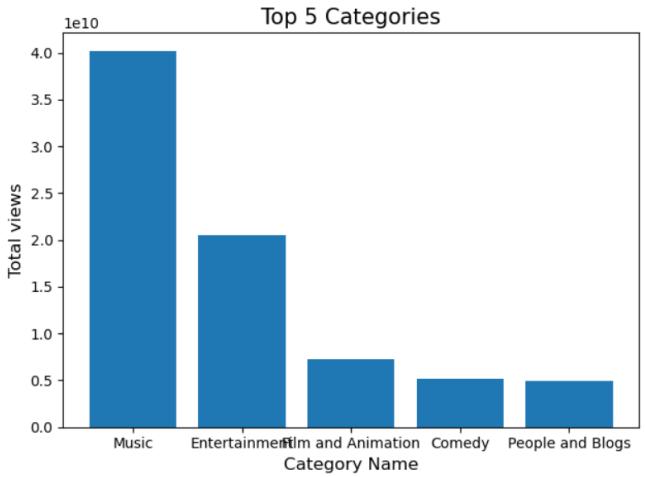
Code JupyterLab Python 3 (ipykernel)

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



[41]:
```
plt.figure(figsize=(12, 6))
sns.countplot(x='category_name', data=df, order=df['category_name'].value_counts().index)
plt.xticks(rotation=90)
plt.title('Video Count by Category')
plt.show()
```

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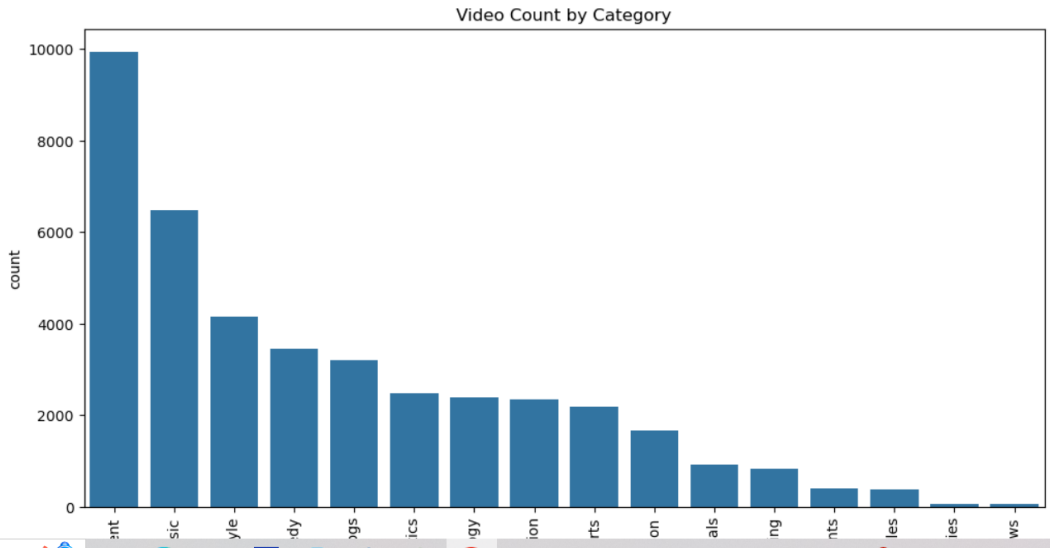
Code

JupyterLab Python 3 (ipykernel)

[41]:
```
plt.figure(figsize=(12, 6))
sns.countplot(x='category_name', data=df, order=df['category_name'].value_counts().index)
plt.xticks(rotation=90)
plt.title('Video Count by Category')
plt.show()
```



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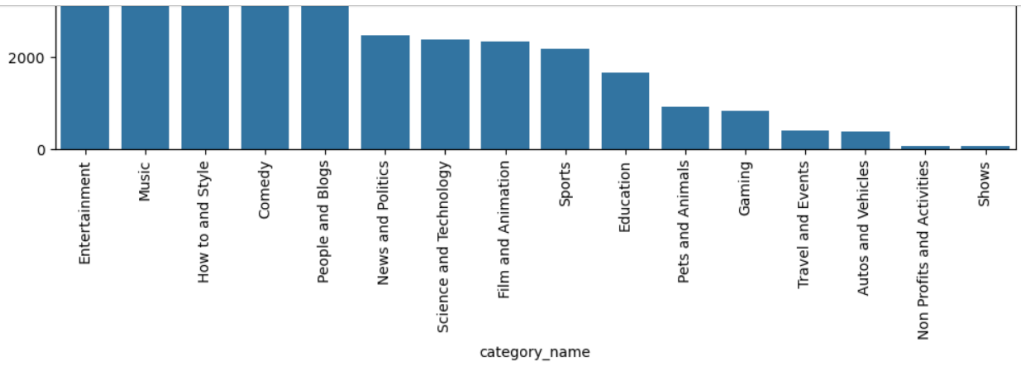
Code

JupyterLab Python 3 (ipykernel)



[43]:
```
#Count the number of videos published per hour
videos_per_hour = df['publish_hour'].value_counts().sort_index()

#Create a bar plot
plt.figure(figsize=(12, 6))
sns.barplot(x=videos_per_hour.index, y=videos_per_hour.values,palette='rocket')
plt.title('Number of Videos Published per Hour')
plt.xlabel('Hour of Day')
plt.ylabel('Number of Videos')
plt.xticks(rotation=45)
plt.show()
```

```
C:\Users\aadil\AppData\Local\Temp\ipykernel_13612\2914125754.py:6: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the s
```

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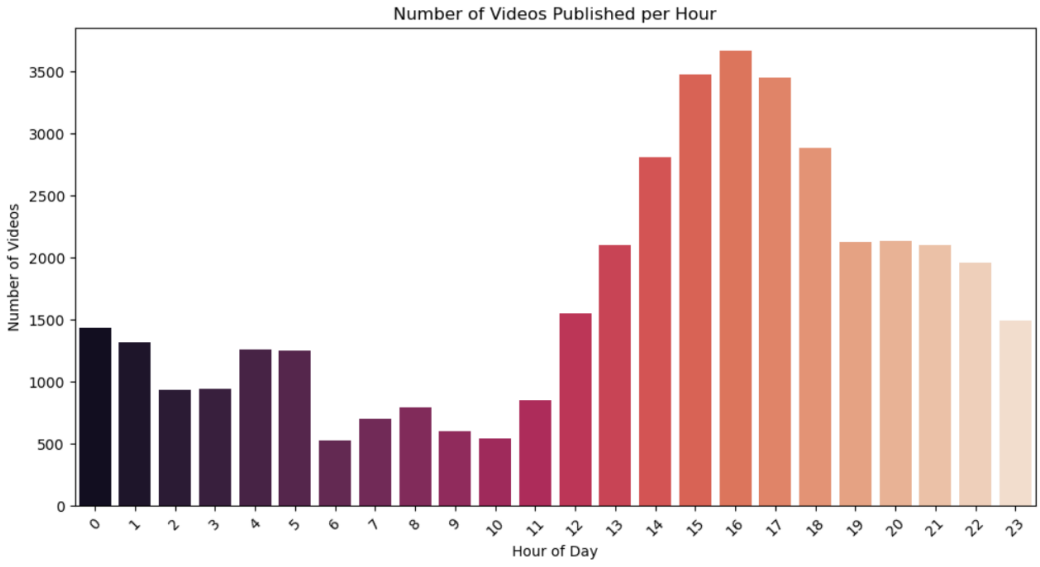
Code JupyterLab Python 3 (ipykernel)

```
sns.barplot(x=videos_per_hour.index, y=videos_per_hour.values,palette='rocket')
```



[47]:
```
df['publish_time'] = pd.to_datetime(df['publish_time'])
df['publish_date'] = df['publish_time'].dt.date
video_count_by_date = df.groupby('publish_date').size()
```

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Code

JupyterLab Python 3 (ipykernel)

[47]:
```
df['publish_time'] = pd.to_datetime(df['publish_time'])
df['publish_date'] = df['publish_time'].dt.date
video_count_by_date = df.groupby('publish_date').size()
plt.figure(figsize=(12, 6))
sns.lineplot(data=video_count_by_date)
plt.title("Videos Published Over Time")
plt.xlabel('Publish Date')
plt.ylabel('Number of Videos')
plt.xticks(rotation=45)
plt.show()
```

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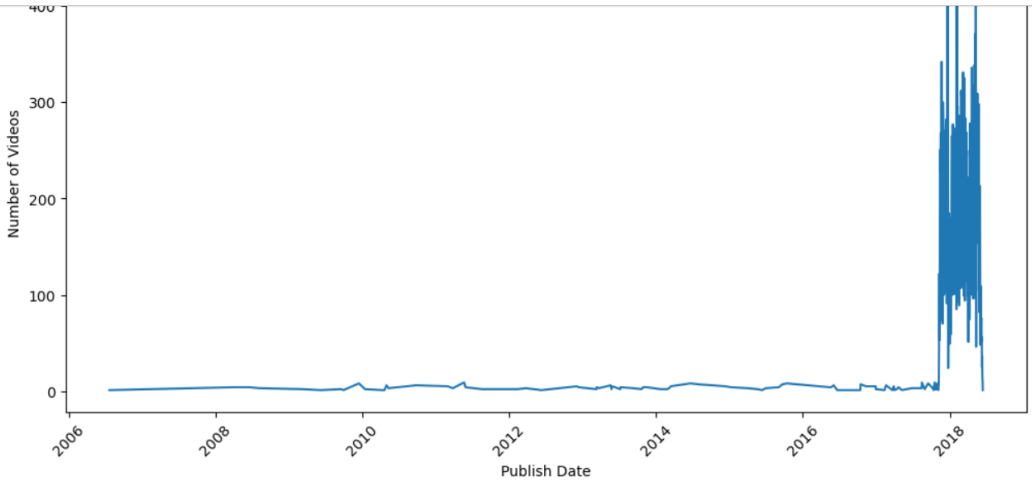
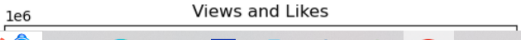
Code

JupyterLab Python 3 (ipykernel)



[55]:
```
#Scatter plot between 'views' and 'likes'
sns.scatterplot(data=df, x= 'views', y='likes')
plt.title('Views and Likes')
plt.xlabel('Views')
plt.ylabel('Likes')
plt.show()
```



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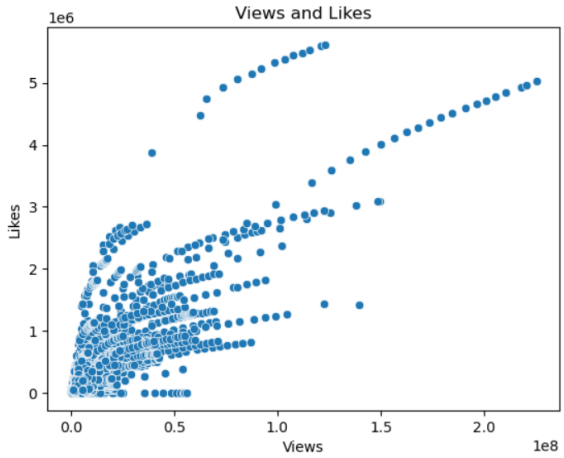
Code

JupyterLab Python 3 (ipykernel)

Publish Date

[55]:
```
#Scatter plot between 'views' and 'likes'
sns.scatterplot(data=df, x= 'views', y='likes')
plt.title('Views and Likes')
plt.xlabel('Views')
plt.ylabel('Likes')
plt.show()
```



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Code

JupyterLab Python 3 (ipykernel)

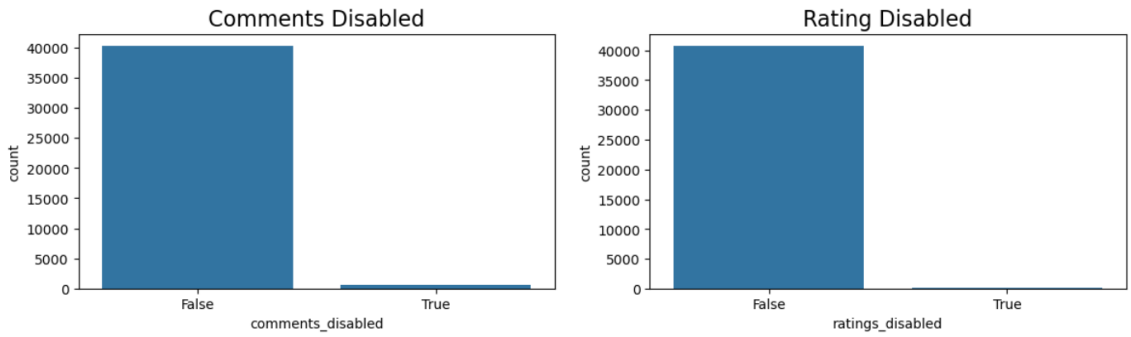
0.0 0.5 1.0 1.5 2.0

Views

1e8

[61]:

```
plt.figure(figsize = (14,8))
plt.subplots_adjust(wspace = 0.2, hspace = 0.4, top = 0.9)
plt.subplot(2,2,1)
g = sns.countplot(x='comments_disabled', data=df)
g.set_title("Comments Disabled", fontsize=16)
plt.subplot(2,2,2)
gl = sns.countplot(x='ratings_disabled', data=df)
gl.set_title("Rating Disabled", fontsize=16)
plt.subplot(2,2,3)
g2 = sns.countplot(x='video_error_or_removed', data=df)
g2.set_title("Vedio Error or Removed", fontsize=16)
plt.show()
```



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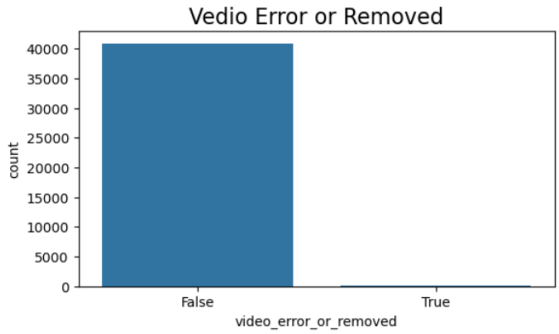
Code JupyterLab Python 3 (ipykernel)



[63]:
```
corr_matrix = df['views'].corr(df['likes'])
corr_matrix
```

[63]: 0.8491785476230509

[ ]:

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