

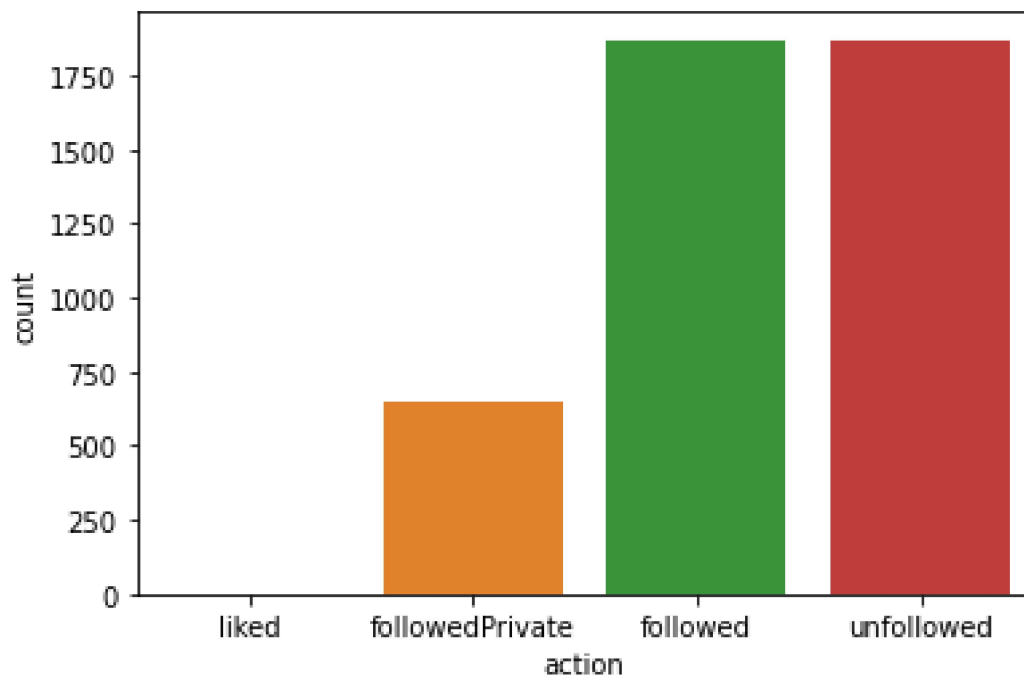
step 01

- include libraries
- load dataset

```
import pandas as pd
import seaborn as sns
df=pd.read_csv(r"C:\Users\FTC\Desktop\oder_4\
danielle_ed_actively.csv")
```

```
sns.countplot(x='action', data=df)
```

```
<AxesSubplot:xlabel='action', ylabel='count'>
```



step 02

- change obj type to date time type

```
df['date']=pd.to_datetime(df['date'])
df['date'].dt.date
```

```
0      2021-12-11
1      2021-12-11
2      2021-12-11
3      2021-12-11
4      2021-12-11
...
4379   2022-01-14
```

```

4380    2022-01-14
4381    2022-01-14
4382    2022-01-14
4383    2022-01-14
Name: date, Length: 4384, dtype: object

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4384 entries, 0 to 4383
Data columns (total 5 columns):
 #   Column      Non-Null Count  Dtype
---  ---
 0   date        4384 non-null   datetime64[ns]
 1   username    4384 non-null   object
 2   action      4384 non-null   object
 3   source      4384 non-null   object
 4   extra       0 non-null      float64
dtypes: datetime64[ns](1), float64(1), object(3)
memory usage: 171.4+ KB

df.date.max()

Timestamp('2022-01-14 13:48:04')

df.date.min()

Timestamp('2021-12-11 18:03:48')

df.date.max()-df.date.min()

Timedelta('33 days 19:44:16')

(df.date.max()-df.date.min()).days

33

```

step 03

```

• inputs
• logic
• plot
# ts=input('Enter start date')
# ts1=input('Enter start date')

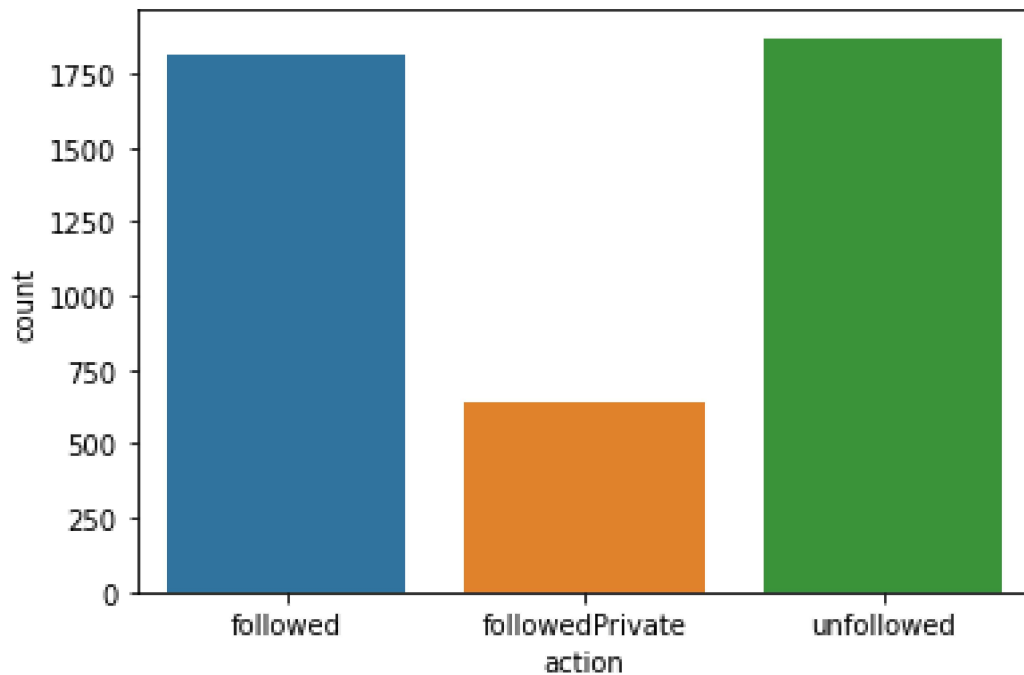
ts=pd.to_datetime('14/12/2021')# start date
ts1=pd.to_datetime('18/2/2022')# last date

df3=df.loc[(df['date']>ts)&(df['date']<ts1)]

sns.countplot(x='action', data=df3)

```

<AxesSubplot:xlabel='action', ylabel='count'>



df3

	date	username	action	\
68	2021-12-13 04:44:01	lalimoshevich	followed	
69	2021-12-13 04:49:51	yalishchori	followed	
70	2021-12-13 04:51:09	irisagasi	followedPrivate	
71	2021-12-13 04:52:10	galit269	followedPrivate	
72	2021-12-13 04:53:15	hanipardo	followedPrivate	
...	
4379	2022-01-14 13:34:53	yossr750	followed	
4380	2022-01-14 13:37:04	orlykinan	unfollowed	
4381	2022-01-14 13:38:53	hani_cohen1	unfollowed	
4382	2022-01-14 13:46:52	inballev	followed	
4383	2022-01-14 13:48:04	sigalace	followedPrivate	

	source	extra
68	('interact_by_users', 'specific_user')	NaN
69	('interact_by_users', 'specific_user')	NaN
70	('interact_by_users', 'specific_user')	NaN
71	('interact_by_users', 'specific_user')	NaN
72	('interact_by_users', 'specific_user')	NaN
...
4379	('interact_by_users', 'specific_user')	NaN
4380	unfollow_user	NaN
4381	unfollow_user	NaN
4382	('interact_by_users', 'specific_user')	NaN
4383	('interact_by_users', 'specific_user')	NaN

[4316 rows x 5 columns]