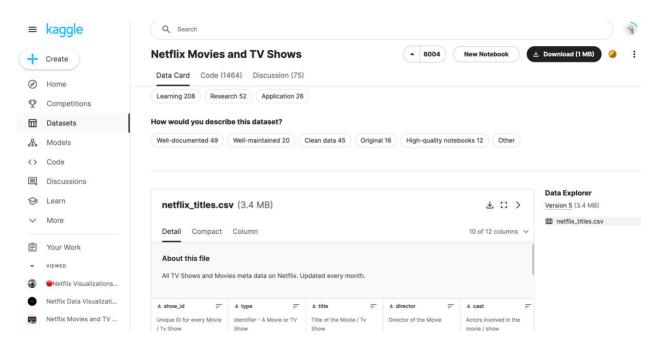
Semester Project Code and Data Source Link and snapshot:

Data Source Link: https://www.kaggle.com/datasets/shivamb/netflix-shows



Code:

#!/usr/bin/env python3 # -*- coding: utf-8 -*-

Created on Sun Dec 3 08:27:14 2023

@author: bidyabhattarai

######### Importing Necessary Libraries ##############

import pandas as pd import seaborn as sns import warnings warnings.filterwarnings('ignore')

import matplotlib.pyplot as plt

####### Loading the dataset ###############

```
df = pd.read_csv('netflix_titles.csv')
df.head()
df.columns, df.columns. len ()
df.count()
df copy = df.copy()
df copy.dropna(inplace=True)
df copy.count()
df_copy.info()
c = df copy.copy().value counts('type').reset index()
c.columns = ['Type', 'count']
print(c)
####### plotting a pie chart for the distribution of movies and TV shows#####
plt.pie(c['count'], labels=c['Type'], autopct='%1.1f%%')
plt.show()
top release=df copy[['release year']]
###### sorting and visualizing the count of releases by year ##############
top release = top release.sort values(by='release year', ascending=False)
top release
plt.figure(figsize=(8, 12))
sns.countplot(data=top release, y='release year')
plt.xlabel('Count')
```

```
plt.ylabel('release year')
plt.title('top release')
plt.show()
net_movies=df_copy[df_copy['type']=='Movie']
###### Visualizing the count of movies by rating ######
sns.countplot(data=net movies, x='rating', )
plt.title('Movies Rating')
plt.show()
######### Extracting and visualizing the top movie ratings ##############
rating = net_movies.value_counts('rating')
print(rating)
rating[:5].plot(kind='pie')
plt.title('Top 5 Ratings of movies')
plt.show()
########## Extracting and visualizing the top movie genres ##############
genre = net movies.value counts('listed in')
print(genre)
genre[:5].plot(kind='bar')
plt.title('Top 5 Genre of movies')
plt.show()
a = net movies.copy().value counts('release year', ascending=False).reset index()
a.columns = ['release_year', 'count']
print(a)
sns.scatterplot(data=a, x='release_year',y='count')
plt.title('movie count release by years')
plt.show()
######## creating dataframe of tv shows seprately ######
```

```
TV_shows=df_copy[df_copy['type']=='TV Show']
sns.countplot(data=TV shows, x='rating', )
plt.title('TV shows rating')
plt.show()
########## Extracting and visualizing the top movie ratings #############
rating = TV shows.value counts('rating')
print(rating)
rating[:5].plot(kind='pie')
plt.title('Top 5 Ratings of TV shows')
plt.show()
a = TV shows.copy().value counts('release year', ascending=False).reset index()
a.columns = ['release year', 'count']
print(a)
sns.scatterplot(data=a, x='release year',y='count')
plt.show()
####### removing 'min' from the movie duration column ######
net movies['duration']=net movies['duration'].str.replace(' min','')
net movies['duration']=net movies['duration'].astype(str).astype(int)
net movies['duration']
###########Plotting a kernel density estimate for movie time duration######
net movies['duration'].plot(kind='kde')
plt.title('Movie Time Duration')
###################Extracting the number of seasons from TV shows data#####
features=['title','duration']
durations= TV shows[features]
durations['no of seasons']=durations['duration'].str.replace(' Season',")
```