

```
# -*- coding: utf-8 -*-  
"""
```

```
@author: Christopher El Khouri  
"""
```

```
import pandas as pd  
import spotipy  
sp = spotipy.Spotify()  
from spotipy.oauth2 import SpotifyClientCredentials  
cid = "bdfd824b4fee47edb12275aad832d3f8"  
secret = "25423f1b59e841d7850cb8d998cb622b"  
client_credentials_manager = SpotifyClientCredentials(client_id=cid, client_secret=secret)  
sp = spotipy.Spotify(client_credentials_manager=client_credentials_manager)  
sp.trace=False
```

```
df=pd.read_csv('../Datasets/dataset-of-10s.csv')  
df['track id']=0  
df['artist id']=0  
for index,row in df.iterrows():  
    df.iloc[index,19]=row['uri'][14:]  
  
for index,row in df.iterrows():  
    df.iloc[index,20]=sp.track(row['track id'])['artists'][0]['id']  
  
df['genres_1']=0  
df['genres_2']=0  
df['genres_3']=0  
df['genres_4']=0
```

```
maxg=0
```

```
i=0
```

```
for index,row in df.iterrows():  
    for i in range(0,len(sp.artist(row['artist id'])['genres'])):  
        if(i==4):  
            break  
        df.iloc[index,21+i]=sp.artist(row['artist id'])['genres'][i]
```

```
df.to_csv('spot_up_10s.csv')
```

```
df=pd.read_csv('../Datasets/dataset-of-00s.csv')  
df['track id']=0  
df['artist id']=0  
for index,row in df.iterrows():  
    df.iloc[index,19]=row['uri'][14:]  
  
for index,row in df.iterrows():  
    df.iloc[index,20]=sp.track(row['track id'])['artists'][0]['id']  
  
df['genres_1']=0
```

```

df['genres_2']=0
df['genres_3']=0
df['genres_4']=0

maxg=0

i=0

for index,row in df.iterrows():
    for i in range(0,len(sp.artist(row['artist id'])['genres'])):
        if(i==4):
            break
        df.iloc[index,21+i]=sp.artist(row['artist id'])['genres'][i]

df.to_csv('spot_up_00s.csv')

```

```

df=pd.read_csv('../Datasets/dataset-of-90s.csv')
df['track id']=0
df['artist id']=0
for index,row in df.iterrows():
    df.iloc[index,19]=row['uri'][14:]

for index,row in df.iterrows():
    df.iloc[index,20]=sp.track(row['track id'])['artists'][0]['id']

df['genres_1']=0
df['genres_2']=0
df['genres_3']=0
df['genres_4']=0

maxg=0

i=0

for index,row in df.iterrows():
    for i in range(0,len(sp.artist(row['artist id'])['genres'])):
        if(i==4):
            break
        df.iloc[index,21+i]=sp.artist(row['artist id'])['genres'][i]

df.to_csv('spot_up_90s.csv')

```

```

df=pd.read_csv('../Datasets/dataset-of-80s.csv')
df['track id']=0
df['artist id']=0
for index,row in df.iterrows():
    df.iloc[index,19]=row['uri'][14:]

for index,row in df.iterrows():
    df.iloc[index,20]=sp.track(row['track id'])['artists'][0]['id']

df['genres_1']=0
df['genres_2']=0
df['genres_3']=0

```

```

df['genres_4']=0

maxg=0

i=0

for index,row in df.iterrows():
    for i in range(0,len(sp.artist(row['artist id']]['genres'])):
        if(i==4):
            break
        df.iloc[index,21+i]=sp.artist(row['artist id']]['genres'][i]

df.to_csv('spot_up_80s.csv')

df=pd.read_csv('../Datasets/dataset-of-70s.csv')
df['track id']=0
df['artist id']=0
for index,row in df.iterrows():
    df.iloc[index,19]=row['uri'][14:]

for index,row in df.iterrows():
    df.iloc[index,20]=sp.track(row['track id']]['artists'][0]['id']

df['genres_1']=0
df['genres_2']=0
df['genres_3']=0
df['genres_4']=0

maxg=0

i=0

for index,row in df.iterrows():
    for i in range(0,len(sp.artist(row['artist id']]['genres'])):
        if(i==4):
            break
        df.iloc[index,21+i]=sp.artist(row['artist id']]['genres'][i]

df.to_csv('spot_up_70s.csv')

df=pd.read_csv('../Datasets/dataset-of-60s.csv')
df['track id']=0
df['artist id']=0
for index,row in df.iterrows():
    df.iloc[index,19]=row['uri'][14:]

for index,row in df.iterrows():
    df.iloc[index,20]=sp.track(row['track id']]['artists'][0]['id']

df['genres_1']=0
df['genres_2']=0
df['genres_3']=0
df['genres_4']=0

maxg=0

i=0

```

```
for index,row in df.iterrows():
    for i in range(0,len(sp.artist(row['artist id'])['genres'])):
        if(i==4):
            break
        df.iloc[index,21+i]=sp.artist(row['artist id'])['genres'][i]

df.to_csv('spot_up_60s.csv')
```