In [2]:
```
import pandas as pd
```

```
/Users/harshil/anaconda3/lib/python3.10/site-packages/pandas/core/arrays/masked.py:60: UserWarning: Pandas requires version '1.3.6' or newer of 'bottleneck' (version '1.3.5' currently installed).
  from pandas.core import (
/var/folders/4p/7vfgzzfn7q5dmq63pxmv3dlm0000gn/T/ipykernel_17191/4080736814.py:1: DeprecationWarning:
Pyarrow will become a required dependency of pandas in the next major release of pandas (pandas 3.0),
(to allow more performant data types, such as the Arrow string type, and better interoperability with other libraries)
but was not found to be installed on your system.
If this would cause problems for you,
please provide us feedback at https://github.com/pandas-dev/pandas/issues/54466 (https://github.com/pandas-dev/pandas/issues/54466)

  import pandas as pd
```

In [3]:
```
import pickle

# Load the models
with open('model.pkl', 'rb') as f:
    model = pickle.load(f)

with open('vectorise.pkl', 'rb') as f:
    v = pickle.load(f)
```

In [4]:
```
df = pd.read_csv('Cyber2_val.csv')
```

In [5]:
```
df.head()
```

Out[5]:

	url	ID
0	forums.roadbikereview.com/general-cycling-disc...	93864
1	baseball-reference.com/teams/MON/1988.shtml	192687
2	jaycookmusic.com/	106530
3	imdb.com/name/nm0768996/	263109
4	pipl.com/directory/name/Le%20Ber/Pierre	132895

In [6]:
```
X = df['url']
```

In [7]:
```
X_count = v.transform(X)
```

In [8]:
```
y_pred = model.predict(X_count)
```

In [12]:
```
df_predictions = pd.DataFrame({
    'Label': y_pred
})

print(df_predictions)
```

```
       Label
0          1
1          1
2          1
3          1
4          1
...      ...
67270      1
67271      1
67272      1
67273      1
67274      0

[67275 rows x 1 columns]
```

In [13]:
```
csv_file_path = 'predictions.csv'

df_predictions.to_csv(csv_file_path, index=False)
```

In [11]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 67275 entries, 0 to 67274
Data columns (total 2 columns):
 #   Column  Non-Null Count  Dtype 
---  ------  --------------  ----- 
 0   url     67275 non-null  object
 1   ID      67275 non-null  int64 
dtypes: int64(1), object(1)
memory usage: 1.0+ MB
```

In [ ]:

In [ ]: