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

In [2]: from sklearn.linear\_model import LogisticRegression

In [3]: df=pd.read\_csv("C3 bot csv").dropna()

df

Out[3]:

Authority research  1 289683 hinesstephanie natural life 55 5 9617 True 0 Sa material staff  Manage whose quickly 6 2 4363 True 0 Ha especially foot none to g  Just cover eight opportunity strong policy which		User ID	Username	Tweet	Retweet Count	Mention Count	Follower Count	Verified	Bot Label	
whose quickly 6 2 4363 True 0 Hate specially foot none to g  Just cover eight opportunity strong policy  3 696168 pmason strong policy	1	289683	hinesstephanie	research natural life material	55	5	9617	True	0	Sa
eight <b>3</b> 696168 pmason opportunity 54 5 2242 True 1 Mar policy	2	779715	roberttran	whose quickly especially foot none to	6	2	4363	True	0	Ha
	3	696168	pmason	eight opportunity strong policy	54	5	2242	True	1	Mar

In [4]: df.dropna(inplace=True)

```
In [5]: df.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 41659 entries, 1 to 49999
         Data columns (total 11 columns):
                              Non-Null Count Dtype
              Column
          0
              User ID
                              41659 non-null
                                              int64
          1
              Username
                              41659 non-null object
          2
              Tweet
                              41659 non-null object
          3
              Retweet Count
                              41659 non-null
                                             int64
          4
              Mention Count 41659 non-null int64
          5
              Follower Count 41659 non-null int64
          6
              Verified
                              41659 non-null bool
          7
              Bot Label
                              41659 non-null int64
          8
                              41659 non-null object
              Location
          9
              Created At
                              41659 non-null object
          10 Hashtags
                              41659 non-null object
         dtypes: bool(1), int64(5), object(5)
         memory usage: 3.5+ MB
 In [6]: feature_matrix = df[['User ID', 'Retweet Count', 'Mention Count', 'Follower Count
         target vector = df['Verified']
 In [7]: | feature matrix.shape
 Out[7]: (41659, 5)
 In [8]: target vector.shape
 Out[8]: (41659,)
 In [9]: from sklearn.preprocessing import StandardScaler
In [10]: | fs = StandardScaler().fit transform(feature matrix)
In [11]: logr = LogisticRegression()
         logr.fit(fs,target vector)
Out[11]: LogisticRegression()
In [12]: | feature_matrix.shape
Out[12]: (41659, 5)
In [13]: | target_vector.shape
Out[13]: (41659,)
In [14]: from sklearn.preprocessing import StandardScaler
```