MAJOR PROJECT - 1

A fake news website prediction model using ML techniques

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FAKE NEWS WEBSITE PREDICTOR

PROGRAM CODE

```
#FAKE NEWS SITE DETECTION
import pandas as pd
df=pd.read_csv("/content/data.csv")

#REMOVING UNDESIRED COLUMNS
df=df.drop(["Headline","Body"],axis=1)

#INPUT OUTPUT DIVISION
x=df.iloc[:,0].values
y=df.iloc[:,1].values

#LOGISTIC REGRESSION
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,random_state=0)

#TFIDF AND SVM
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.svm import SVC
from sklearn.pipeline import make_pipeline
text_model=make_pipeline(TfidfVectorizer(),SVC())
text_model.fit(x_train,y_train)

#PREDICTION
y_pred=text_model.predict(x_test)

#DEPLOYMENT FILE CREATION
import joblib
joblib.dump(text_model,'fake-news-site')
```

The above code creates a model named ‘fake-news-site’

TEMPORARY DEPLOYMENT

```
!pip install streamlit --quiet
```

```
%%writefile fakenews.py
import streamlit as st
import joblib
model=joblib.load('fake-news-site')
st.title("FAKE NEWS WEBSITE DETECTOR")
ip=st.text_input("WEBSITE URL/NAME")
input=''
for i in ip:
  if i.isspace():
    continue
  else:
    input+=i
op=model.predict([input])
if st.button("CHECK"):
  if op[0]==0:
    st.header("FAKE NEWS WEBSITE")
  else :
    st.header("LEGITIMATE NEWS WEBSITE")
```

```
!streamlit run fakenews.py &npx localtunnel --port 8501
```

This generates a URL. On clicking on the URL, the program will start running in a new tab in the browser

PERMENANT DEPLOYMENT

Heroku App is used for the permanent deployment of the project. With the aid of Heroku we connect our GitHub repository containing the required files and documents for the project.

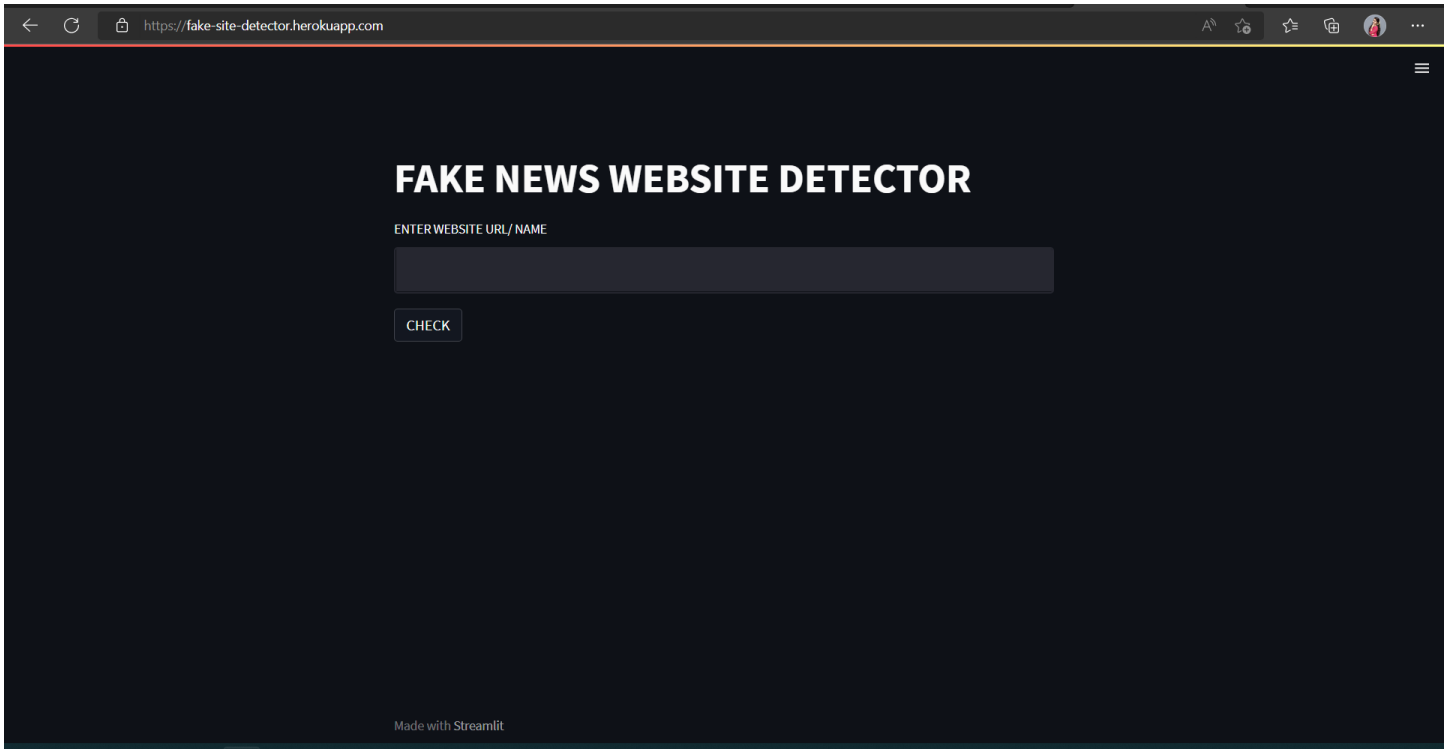
After connecting the repository to it, it will generate a URL with the name that we had specified while creating the application.

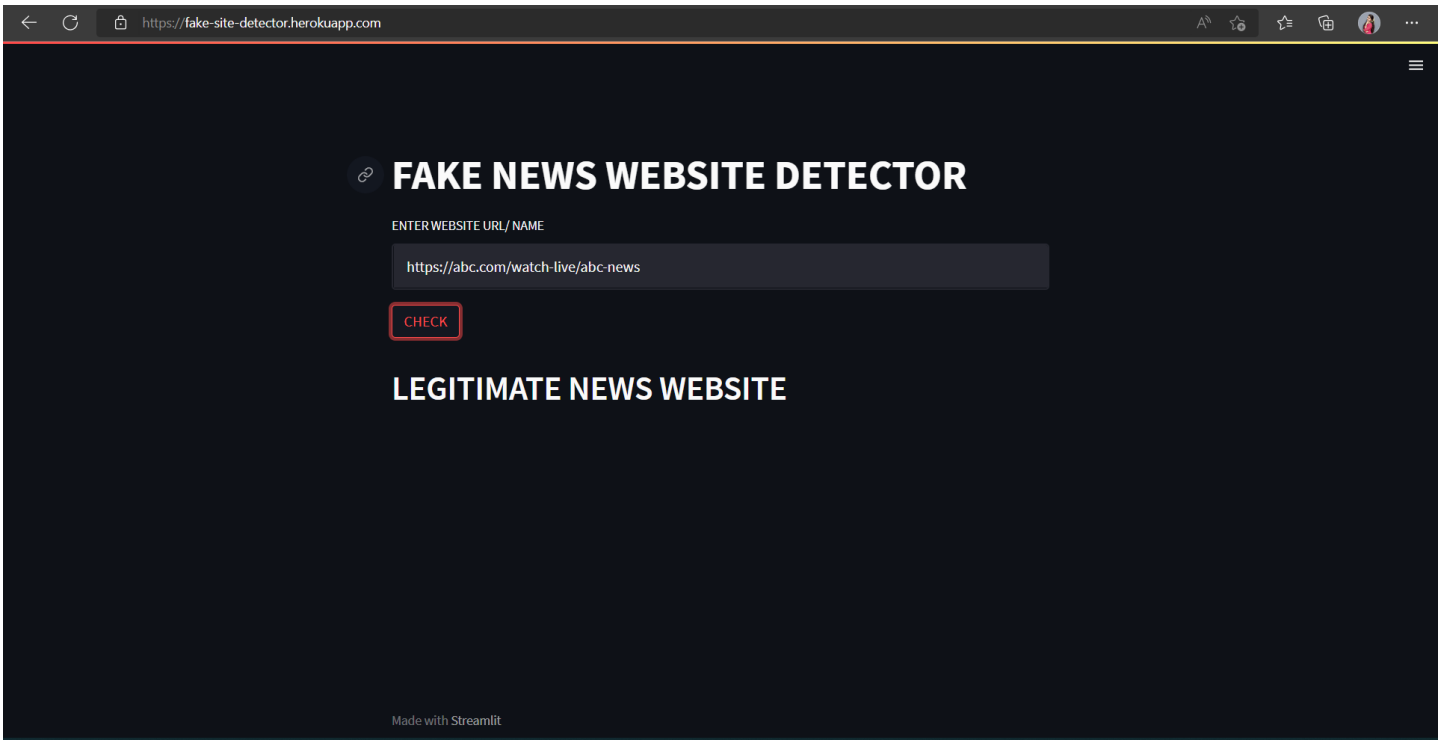
Each time a change is made in the repository, Heroku will build the model automatically and the same link can be used to run our application.

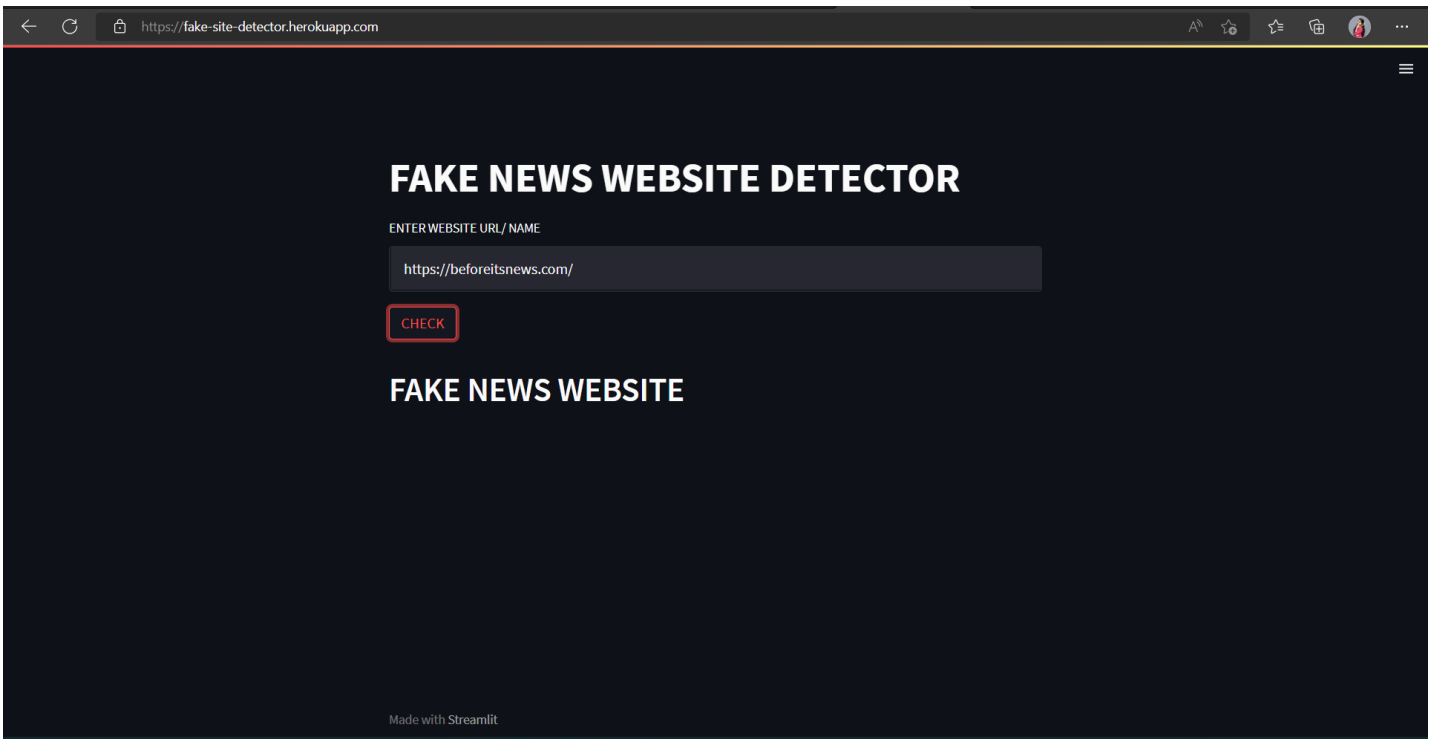
GitHub repository link : NamrithaGirish/FakeSites: ML model for Fake News Website Detection (github.com)

Application link : fakenews · Streamlit (fake-site-detector.herokuapp.com)

OUTPUT


https://fake-site-detector.herokuapp.com
FAKE NEWS WEBSITE DETECTOR
ENTER WEBSITE URL/ NAME
CHECK
Made with Streamlit


https://fake-site-detector.herokuapp.com
FAKE NEWS WEBSITE DETECTOR
ENTER WEBSITE URL/ NAME
https://abc.com/watch-live/abc-news
CHECK
LEGITIMATE NEWS WEBSITE
Made with Streamlit


https://fake-site-detector.herokuapp.com
FAKE NEWS WEBSITE DETECTOR
ENTER WEBSITE URL/ NAME
https://beforeitsnews.com/
CHECK
FAKE NEWS WEBSITE
Made with Streamlit

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