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| --- |
| from flask import Flask, render\_template, request |
|  | import numpy as np |
|  | import pandas as pd |
|  | from sklearn import metrics |
|  | import warnings |
|  | import pickle |
|  | warnings.filterwarnings('ignore') |
|  | from features import FeatureExtraction |
|  |  |
|  | app = Flask(\_\_name\_\_) |
|  |  |
|  | xgb = pickle.load(open("XGBoostClassifier.pkl", "rb")) |
|  |  |
|  | @app.route("/", methods=["GET", "POST"]) |
|  | def home(): |
|  | if request.method == "POST": |
|  |  |
|  | url = request.form["url"] |
|  | obj = FeatureExtraction(url) |
|  |  |
|  | x = np.array(obj.getFeaturesList()).reshape(1,13) |
|  | print(x) |
|  | y\_pred =xgb.predict(x)[0] |
|  | print(y\_pred) |
|  | y\_pro\_phishing = xgb.predict\_proba(x)[0,0] |
|  | print(y\_pro\_phishing) |
|  | y\_pro\_non\_phishing = xgb.predict\_proba(x)[0,1] |
|  | print(y\_pro\_non\_phishing) |
|  |  |
|  | if(y\_pro\_phishing\*100<60): |
|  | msg="Treat! They say, 'Not all those who wander are lost'. And you are definitely not lost. Have a safe day exploring!!" |
|  | flag=1 |
|  | else: |
|  | msg="Trick! They say, 'Not all those who wander are lost'. But you are definitely lost. Find other sites to explore!!" |
|  | flag=-1 |
|  |  |
|  | return render\_template('result.html', msg=msg, url=url, val=flag) |
|  |  |
|  | return render\_template("index.html") |
|  |  |
|  | @app.route("/report") |
|  | def report(): |
|  | return render\_template("contact.html") |
|  |  |
|  | if \_\_name\_\_ == '\_\_main\_\_': |
|  | app.run(debug=True) |