Web Phishing Detection Using Machine Learning

Phishing Url Detection Using PYTHON

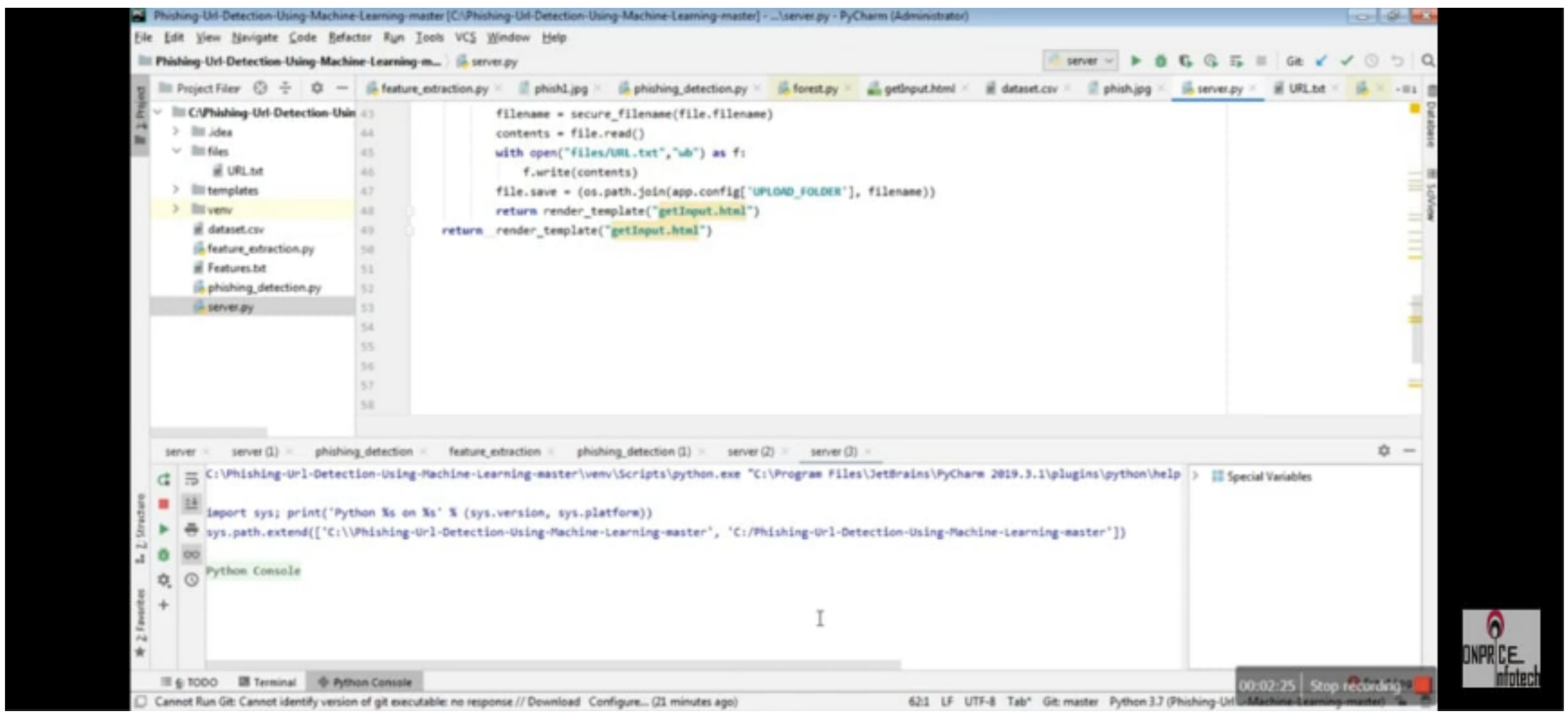
Python:

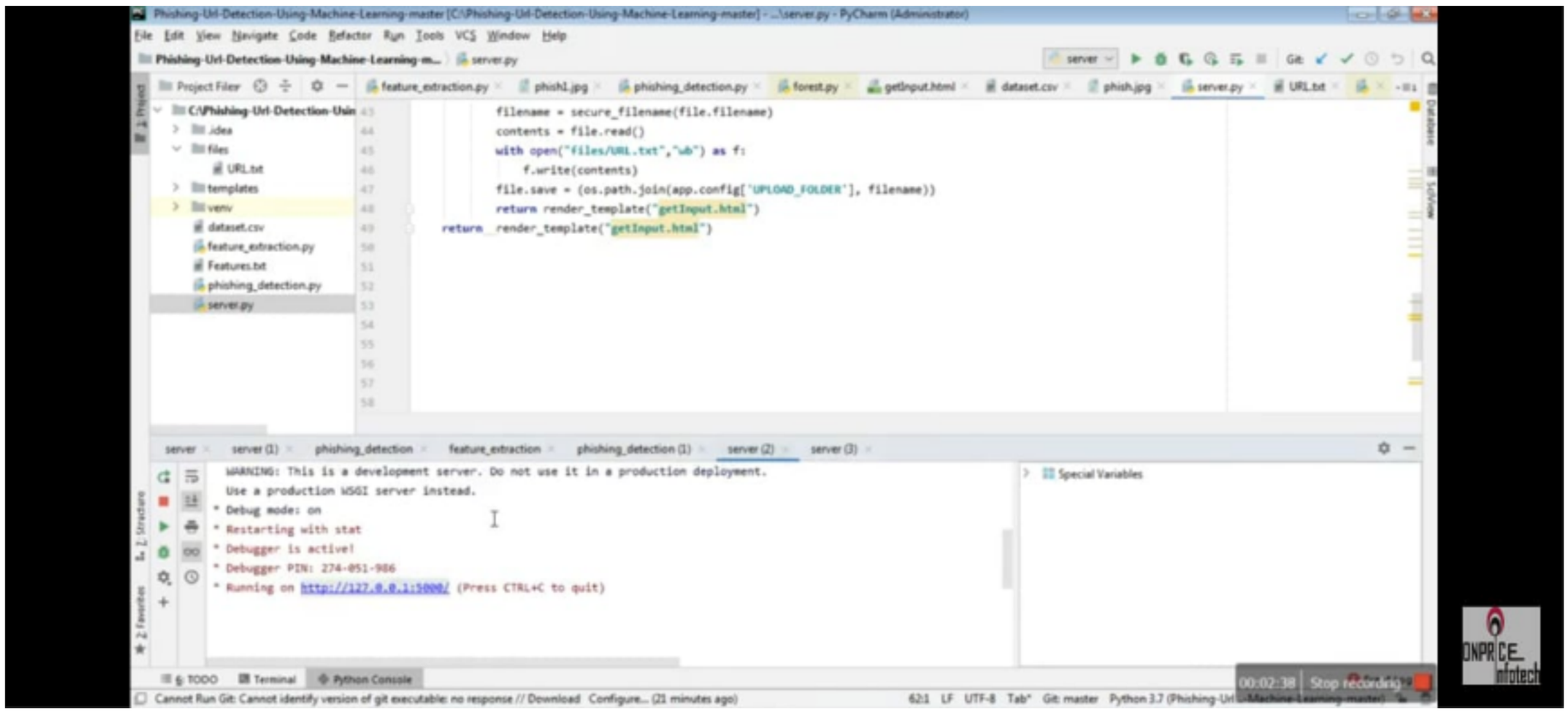
```
import os;

from flask import flask

from flask import(
                    flash,render_template,request
)

from utils, import secure_filename

impor phishing_detection

app=flask(_name_)

UPLOAD_FOLDER="/files"

app.config['UPLOAD_FOLDER']= UPLOAD_FOLDER

ALLOWED_EXTENTIONS=set(['txt','pdf','png'])

def allowed_file (filename) and /
filename.rsplit('.',1)


@app.route(/result)

def result();

  url name =request.args['name']

result =phishing_detecti.getResult(urlname)
```

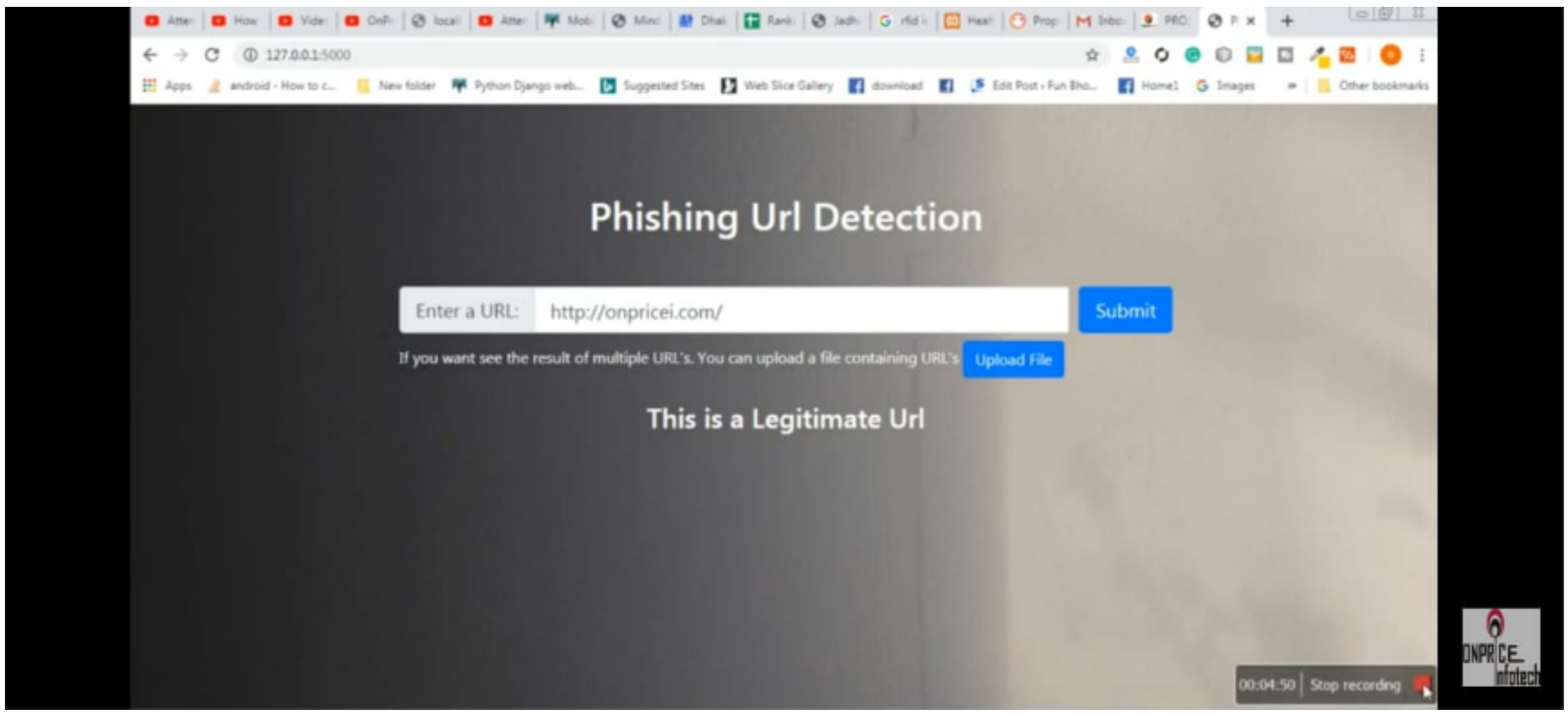
```
return result

@app.route(\result)

def result():

urlname=request.args['name']

result=phishing_detection.getResult(url name)

return result

list=[X.start(0) for x in re.finditer()

i=0 sucess=0

if soup==.find_all('link',href-True):

dots=[x.start(0)for x in re.finditer

if url in link['href'] or domain inlink[href']

sucess=sucess+1

i=i+1

for script in soup.find all('script',src=true)

def generate_data_set(url)

data_set=[]

if not re.match(r"^https?,url)

url="http://+url

try:

response =requests.get(url)

exceptL
```

```
response=

sop=-999

filename=secure_filename(file.filename)

contents=file.read()

with open ("file/url.txt","ud")

return render_template("getInput.html")
```

sample output:




Phishing-Url-Detection-Using-Machine-Learning-master [C:\Phishing-Url-Detection-Using-Machine-Learning-master] - ...\server.py - PyCharm (Administrator)
File Edit View Navigate Code Refactor Run Tools VCS Window Help
Project Files
feature_extraction.py
phish1.jpg
phishing_detection.py
forest.py
getInput.html
dataset.csv
phish.jpg
server.py
URL.txt
filename = secure_filename(file.filename)
contents = file.read()
with open("files/URL.txt","wb") as f:
f.write(contents)
file.save = (os.path.join(app.config['UPLOAD_FOLDER'], filename))
return render_template("getInput.html")
return render_template("getInput.html")
server
server (1)
phishing_detection
feature_extraction
phishing_detection (1)
server (2)
server (3)
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 274-051-986
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
Special Variables
TODO
Terminal
Python Console
00:02:38
Stop recording
Cannot Run Git: Cannot identify version of git executable: no response // Download Configure... (21 minutes ago)
62:1 LF UTF-8 Tab* Git: master Python 3.7 (Phishing-Url-Detection-Using-Machine-Learning-master)


127.0.0.1:5000
Apps
Other bookmarks
Phishing Url Detection
Enter a URL:
http://onpricei.com/
Submit
If you want see the result of multiple URL's. You can upload a file containing URL's
Upload File
This is a Legitimate Url
00:04:50
Stop recording

modeltesting output:

```
┌──(preeti㉿kali)-[~]
└─$ git clone https://github.com/jaykali/shellphish
Cloning into 'shellphish' ...
remote: Enumerating objects: 308, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 308 (delta 1), reused 0 (delta 0), pack-reused 303
Receiving objects: 100% (308/308), 8.28 MiB | 2.02 MiB/s, done.
Resolving deltas: 100% (54/54), done.
```

```
┌──(preeti㉿kali)-[~/blackeye]
└─$ bash blackeye.sh
    :: Disclaimer: Developers assume no liability and are not    ::
    :: responsible for any misuse or damage caused by BlackEye.  ::
    :: Only use for educational purporses !!                     ::

    ::      BLACKEYE v1.5! By @suljot_gjoka & @thelinuxchoice     ::

         [01] Instagram      [17] DropBox        [33] eBay
         [02] Facebook       [18] Adobe ID       [34] Amazon
         [03] Snapchat       [19] Shopify        [35] iCloud
         [04] Twitter        [20] Messenger      [36] Spotify
         [05] Github         [21] GitLab         [37] Netflix
         [06] Google         [22] Twitch         [38] Custom
         [07] Origin         [23] MySpace
         [08] Yahoo          [24] Badoo
         [09] Linkedin       [25] VK
         [10] Protonmail     [26] Yandex
         [11] Wordpress      [27] devianART
         [12] Microsoft      [28] Wi-Fi
         [13] IGFollowers    [29] PayPal
         [14] Pinterest      [30] Steam
         [15] Apple ID       [31] Bitcoin
         [16] Verizon        [32] Playstation

[*] Choose an option:
```