

# 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
```

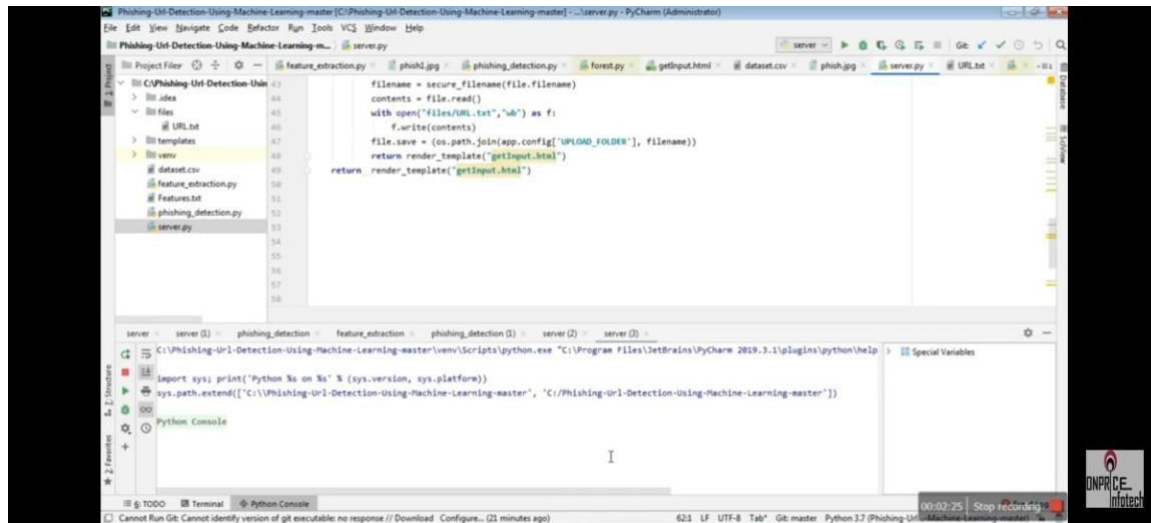
```
("file/url.txt","ud") return
```

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

```
return
```

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

sample output:

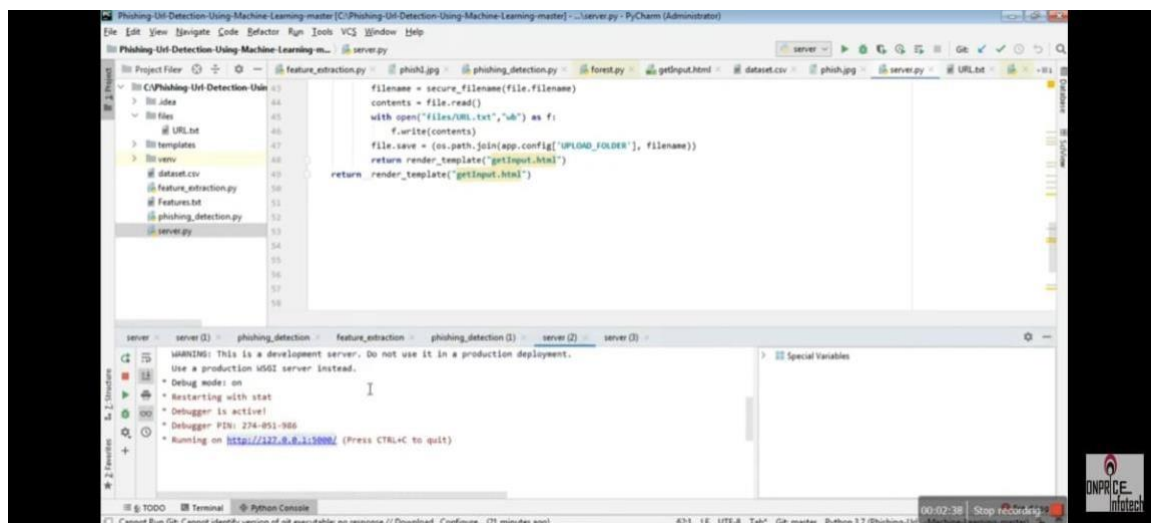


The screenshot shows the PyCharm IDE with the `server.py` file open. The code in `server.py` is as follows:

```
43 filename = secure_filename(file.filename)
44 contents = file.read()
45 with open("files/URL.txt", "ab") as f:
46     f.write(contents)
47 file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename))
48 return render_template("getinput.html")
49 return render_template("getinput.html")
```

The Python Console output shows the following:

```
Import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['C:\\Phishing-Url-Detection-Using-Machine-Learning-master', 'C:\\Phishing-Url-Detection-Using-Machine-Learning-master'])
```



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```
43 filename = secure_filename(file.filename)
44 contents = file.read()
45 with open("files/URL.txt", "ab") as f:
46     f.write(contents)
47 file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename))
48 return render_template("getinput.html")
49 return render_template("getinput.html")
```

The Python Console output shows the following:

```
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: 274-851-986
Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

