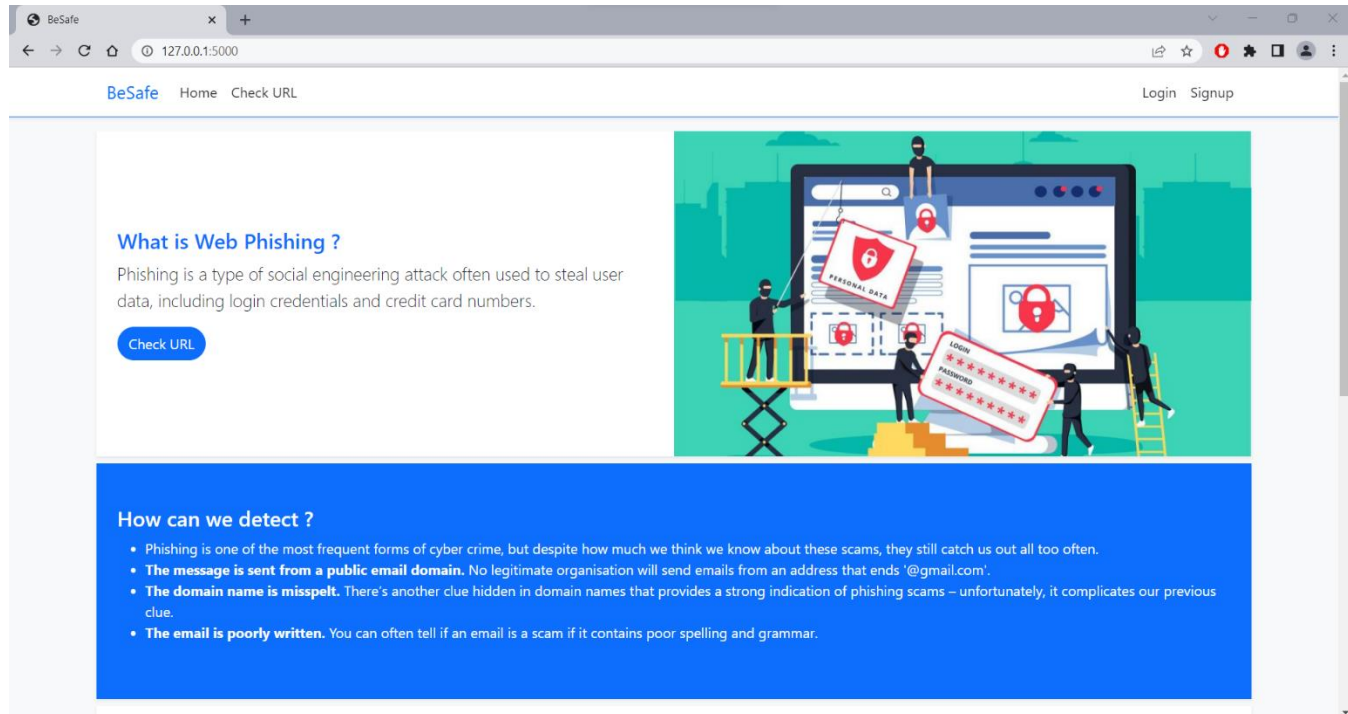


# Web Phishing Detection Web Application Screenshots

## Home Page



The screenshot shows the BeSafe web application's home page. The browser address bar displays '127.0.0.1:5000'. The page has a navigation bar with 'BeSafe', 'Home', and 'Check URL' links, along with 'Login' and 'Signup' buttons. The main content area features a section titled 'What is Web Phishing ?' with a brief definition and a 'Check URL' button. To the right is an illustration of cybercriminals stealing data from a large screen. Below this is a blue box titled 'How can we detect ?' containing three bullet points about phishing detection.

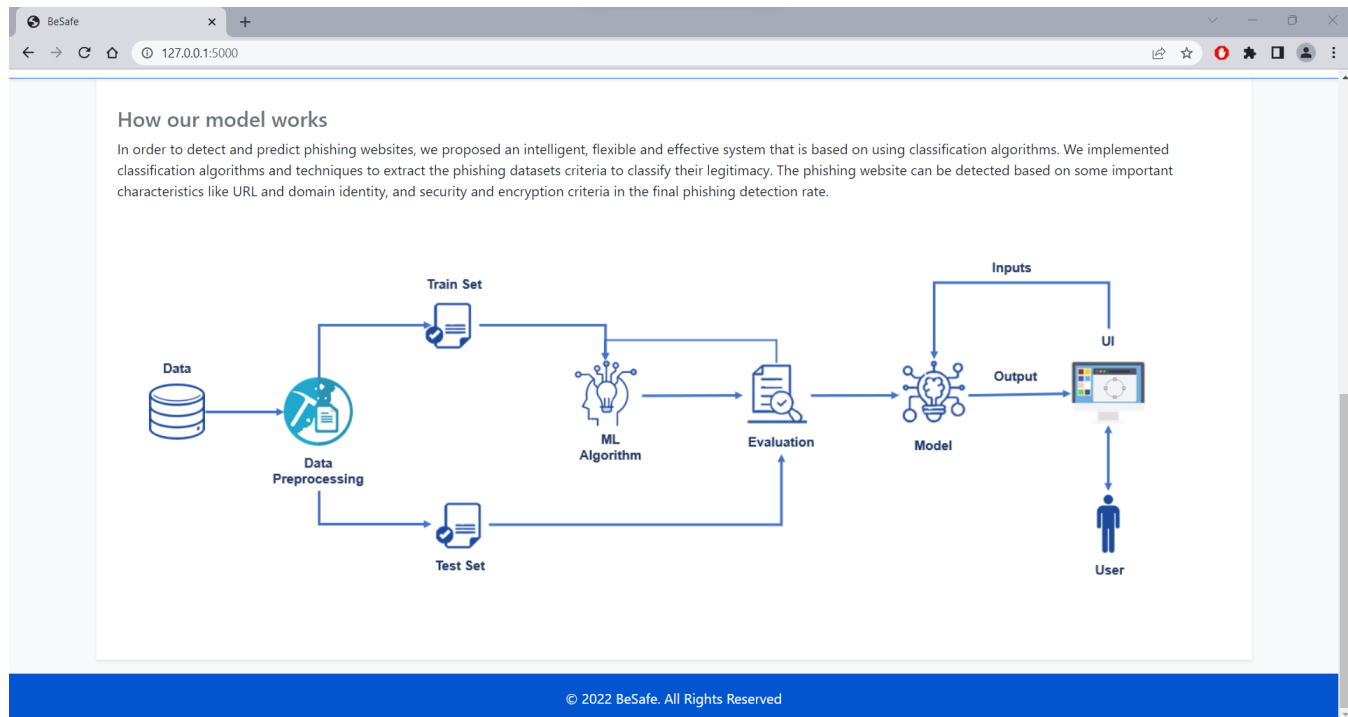
**What is Web Phishing ?**

Phishing is a type of social engineering attack often used to steal user data, including login credentials and credit card numbers.

[Check URL](#)

**How can we detect ?**

- Phishing is one of the most frequent forms of cyber crime, but despite how much we think we know about these scams, they still catch us out all too often.
- **The message is sent from a public email domain.** No legitimate organisation will send emails from an address that ends '@gmail.com'.
- **The domain name is misspelt.** There's another clue hidden in domain names that provides a strong indication of phishing scams – unfortunately, it complicates our previous clue.
- **The email is poorly written.** You can often tell if an email is a scam if it contains poor spelling and grammar.



The screenshot shows the 'How our model works' page of the BeSafe web application. The browser address bar displays '127.0.0.1:5000'. The page contains a paragraph explaining the model's purpose and a flowchart illustrating the machine learning process.

**How our model works**

In order to detect and predict phishing websites, we proposed an intelligent, flexible and effective system that is based on using classification algorithms. We implemented classification algorithms and techniques to extract the phishing datasets criteria to classify their legitimacy. The phishing website can be detected based on some important characteristics like URL and domain identity, and security and encryption criteria in the final phishing detection rate.

```
graph LR
    Data[(Data)] --> DPP((Data Preprocessing))
    DPP --> TS[Train Set]
    DPP --> TeS[Test Set]
    TS --> ML[ML Algorithm]
    TeS --> ML
    ML --> Eval[Evaluation]
    Eval --> Model[Model]
    Model --> UI[UI]
    UI --> User[User]
    User --> Model
    Inputs[Inputs] --> Model
    Model --> Output[Output]
```

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# Check URL Page



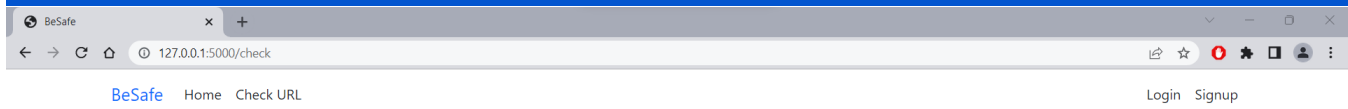
## Web Phishing Detection using Machine Learning

Our model has been trained using Logistic Regression with 91.6% Accuracy

Website URL

Check

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## Web Phishing Detection using Machine Learning

Our model has been trained using Logistic Regression with 91.6% Accuracy

Website URL

Check

**You are Safe. It is a Legitimate Website.**

<http://facebook.com>

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# Signup Page

BeSafe

127.0.0.1:5000/signup

BeSafe Home Check URL

Login Signup

## Welcome to Web Phishing

Detecting Phishing websites

## Signup

Email

Name

Password

Confirm Password

[Signup](#)

Already have an account ? [Login](#)

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## Email Confirmation Received to registered Email ID

BeSafe

(no subject) - besafeweb@gmail

mail.google.com/mail/u/3/?ogbl#inbox/FMfcgzGqRZlwnGRsgtFrNxHmsptzHTdJ

Gmail

Compose

Inbox 1

Starred

Snoozed

Sent

Drafts

More

Labels

(no subject) Inbox x

cryptrix22@gmail.com

to

Hello Ram,

Thank you for registering.

You have successfully created account with BeSafe.

Browse the internet securely by finding Phishing Websites.

Regards,

BeSafe

Reply

Forward

Sat, Nov 19, 10:20 PM (2 days ago)

2 of 4

Waiting for mail.google.com...

## Login Page

BeSafe

Home

Check URL

Login

Signup

Hello!

Welcome back

Login

Email

Password

Login

Don't have an Account ? [Signup](#)

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## My Account Page

BeSafe

Home

Check URL

My Account

Logout

Login Successful!

Welcome Ram

My Account

Name

Email

Ram

besafeweb@gmail.com

2

URL Checked

1

Legitimate

1

Phishing

Search History

S No.	Website URL	Result
1	http://facebook.com	You are Safe. It is a Legitimate Website.
2	http://testphp.vulnweb.com/	Alert! It is a malicious Website.

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