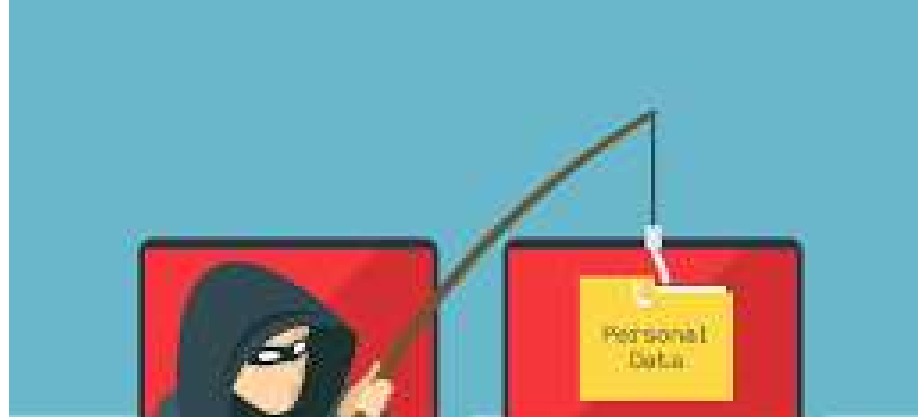Problem Statement   ∨

Phising Detection - Finale

As each coin has two sides, so does technoogly. On one hand, with the advancement in technology the lives are getting better, on the other hand, the ill use of technology is also increasing. The suspicious activities are increasing ranging from dos attacks, phishing, hacking etc. In this hackathon, we are concerned with the increasing phishing attacks.

Typically, Phishing is a type of social engineering where an attacker sends a fraudulent (e.g., spoofed, fake, or otherwise deceptive) message designed to trick a person into revealing sensitive information to the attacker or to deploy malicious software on the victim's infrastructure like ransomware.

Task:
The finale is an extension to the problem statement solved in the semi-final. The following tasks needs to be done for the finale:

1. Find and list the dominant variables

2. Eliminate the Top 2 dominant variables and design a new ML model.

3. Provide your analysis on changes seen and how it impacts prediction.

4. Provide information on the algorithms selected,metrics selected, hyperparameters and overall results.

Submit

TIME:
01 DAY AND 03:29:36 / 2
DAYS

Data Description:

The data set consists of 30 features of a phishing website. The value of attributes can be **[1, 0, -1]** except the key value which is incremental.

1 represents the legitimate

0 represents suspicious

-1 represents phishing

Features	Values
key	12344,12345,12346…….
having_IP	-1,1
URL_Length	1, 0, -1
Shortining_Service	1, -1
having_At_Symbol	1, -1
double_slash_redirecting	1, -1
Prefix_Suffix	1, -1
having_Sub_Domain	1, 0, -1
SSLfinal_State	1, 0, -1
Domain_registeration_length	1, -1
Favicon	1, -1
port	1, -1
HTTPS_token	1, -1
Request_URL	1, -1
URL_of_Anchor	1, 0, -1
Links_in_tags	1, 0, -1

SFH	1, 0, -1
Submitting_to_email	1, -1
Abnormal_URL	1, -1

Features	Values
Redirect	1, 0
on_mouseover	1, -1
RightClick	1, -1
popUpWidnow	1, -1
Iframe	1, -1
age_of_domain	1, -1
DNSRecord	1, -1
web_traffic	1, 0, -1
Page_Rank	1, -1
Google_Index	1, -1
Links_pointing_to_page	1, 0, -1
Statistical_report	1, -1
Result	1, -1

Dataset (Download (https://static.techgig.com/files/contest_upload_files/Complete_Dataset.zip)**):**
1. Training Dataset (https://static.techgig.com/files/contest_upload_files/Phising_Training_Dataset.zip)
2. Testing Dataset (https://static.techgig.com/files/contest_upload_files/Phising_Testing_Dataset.zip)
3. Sample Submission (https://static.techgig.com/files/contest_upload_files/Phising_Sample_Submisson.zip)

Judging Criteria:

1. Completeness

2. Correctness & Performance

3. Tasks Completion

4. Presentation and Report

Deliverables:

1. Output file generated by the model.

2. Source Code file or .ipynb file or Report

3. Report or Presentation with model explanation and changes observed

4. Demonstration Video (If Possible)

Upload File (Drag and drop or upload your submission file below) *

Please upload presentation or document that you may want to present.

Upload File

File Format

You can upload this in gif,docx,zip,png formats. The document needs to be less than 12 MB.

Save Answer

TIME:

01 DAY AND 03:29:36 / 2 DAYS

Submit