

A Readme file
for
Mini project of Cyber Security



Submitted by

Abhishek Kumar-202IT001

Mohd Asif Khan Khaishagi-202IT013

Submitted to

Dr. Jaidhar C.D.

**Department of Information Technology
National Institute of Technology, Surathkal**

Information about different Files

1. Cyber Security Report :-

This file contains a detailed report about the project, like (**introduction, Data pre-processing, Data visualization, applying classification algorithms , model deployment demo using binder,chrome extension installation demo and Chrome extension result demonstration**).

2. model_creation/Cyber_Security_Project Preprocessing Final.ipynb:-

It is a code file which contains the code of data pre-processing, feature generation as well as data visualization.

3. model_creation/Cyber Security Project Model Creation.ipynb :-

After generating the dataset with features here we applied various Machine learning based classification algorithms and applied parameter tuning for getting optimal parameters by using which we could get the optimal result.

4. model_creation/cyber_securty_project_binder.ipynb:-

It is the code file using which we added text fields etc. as well deployed the model on binder.

5. model_creation/Phishwebsites.csv :-

This is **.csv** which contains all urls(total-4920) with all 15 features and a dependent variable **is_phish**(It is **1** when url is phish url otherwise it will be **0**).

6. Chrome_extension_frontend :-

This is a folder which contains all the codes/images/icons related to the frontend of the chrome extension.

7. Server :-

This is also a folder which contains all the stuff related to the backend(like api, saved model etc.).

8. **Binder_url** :-

There is a file which contains the url of a deployed phishing detection website.

The website takes some time to load since it is a free service.