

Web Phishing Detection

OBJECTIVE

Phishing Website Detection by Machine Learning Techniques Objective. A phishing website is a common social engineering method that mimics trustful uniform resource locators (URLs) and webpages. The objective of this project is to train machine learning models and deep neural nets on the dataset created to predict phishing websites.

WEBSITE URL

The objective of phishing website URLs is to purloin the personal information like user name, passwords and online banking transactions. Phishers use the websites which are visually and semantically similar to those real websites. The objective of phishing website URLs is to purloin the personal information like user name, passwords and online banking transactions. Phishers use the websites which are visually and semantically similar to those real websites.

METHODOLOGY

Detecting and identifying Phishing Websites is really a complex and dynamic problem. Machine learning has been widely used in many areas to create automated solutions. The phishing attacks can be carried out in many ways such as email, website, malware, sms and voice. In this work, we

concentrate on detecting website phishing (URL), which is achieved by making use of the Hybrid Algorithm Approach. Hybrid Algorithm Approach is a mixture of different classifiers working together which gives good prediction rate and improves the accuracy of the system.

IMPLEMENTATION

This section provides knowledge about the implementation environment and throws light on the actual steps for the implementation of dataset to get better accuracy to predict phishing by using different classifiers combination.

Hardware requirements

The following hardware was used for the implementation of the system:

- 4 GB RAM

- 10GB HDD

- Intel 1.66 GHz Processor Pentium 4

Software requirements

The following software was used for the implementation of the system:

- Windows 7 Python 3.6.0

- Visual Studio Code

CONCLUSION

It is found that phishing attacks are very crucial and it is important for us to get a mechanism to detect them. As very important and personal information of the user can be leaked through phishing websites, it becomes more critical to take care of this issue. This problem can be easily solved by using any of the machine learning algorithms with the classifier.