

# SOMETHING AWESOME

## Phishy Email Detector



### My Project

My project is a phishing email detector that utilises machine learning to find trends and patterns in phishing emails. The detector can be fed raw email as input and come to a conclusion of whether or not it's phishy.



### I Achieved

The development of a functional phishing email detector.

A much better understanding into the mind of an attacker.

My first application utilising machine learning techniques.



### I learned



How effective phishing attacks were and their severe consequences.

How phishing attacks are designed & how attackers use them.

How machine learning can be used to identify phishing attacks.



### Reflections

Phishing and spam emails, for the most part, are bundled with flaws which make them easily identifiable. However, ones that are done thoroughly are near impossible to tell by a human, let alone a program.



### Challenges

Researching the characteristics of both legitimate and phishing emails.

Finding large amounts of applicable data.

Understanding machine learning and how to apply it.



### Improving

Evaluating more characteristics and features in algorithm.

Providing non-binary output that is more detailed & descriptive.

Using more applicable data and a larger variety of datasets.

**Project** | [www.codeproject.com/Articles/1232758/Detect-E-mail-Spam-Using-Python](http://www.codeproject.com/Articles/1232758/Detect-E-mail-Spam-Using-Python)

**Phishing Stats** | [www.phishingbox.com/resources/phishing-facts](http://www.phishingbox.com/resources/phishing-facts)

**Keywords** | [blog.hubspot.com/blog/tabid/6307/bid/30684/the-ultimate-list-of-email-spam-trigger-words.aspx](http://blog.hubspot.com/blog/tabid/6307/bid/30684/the-ultimate-list-of-email-spam-trigger-words.aspx)

**Naive Bayes** | [www.geeksforgeeks.org/naive-bayes-classifiers/](http://www.geeksforgeeks.org/naive-bayes-classifiers/)

**Datasets** | [aclweb.org/aclwiki/Spam\\_filtering\\_datasets](http://aclweb.org/aclwiki/Spam_filtering_datasets)

