

Phishing URL Detector - Guide

Project Overview

This project uses a simple machine learning model (Logistic Regression) to predict if a given URL is a phishing attempt or a legitimate one based on basic features.

Setup Instructions

1. Install the required libraries:

```
pip install joblib scikit-learn
```

2. Make sure you have the following files:

- phishing_detector.py
- phishing_model.joblib
- sample_urls.csv

How to Use

Run the phishing detector script:

```
python phishing_detector.py
```

Enter a URL when prompted. The system will classify it as "Safe" or "Phishing".

Files Description

- phishing_detector.py: Main script to predict URL status.
- phishing_model.joblib: Pre-trained Logistic Regression model.
- sample_urls.csv: Example dataset used for training.

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Feature Extraction

The model uses the following simple features extracted from the URL:

- URL length
- Presence of "@" symbol
- Presence of "://" after protocol
- Number of dots in the URL