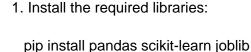
## **Phishing URL Detector - Guide**

## **Project Overview**

This project builds a simple Decision Tree classifier to detect network intrusions based on basic network traffic features. It classifies activities into "Normal" or "Attack".

## **Setup Instructions**



- 2. Make sure you have the following files:
  - intrusion\_detector.py
  - sample\_network\_data.csv

#### How to Use

Run the intrusion detector script:

python intrusion\_detector.py

The model will train on the sample data and predict the nature (Normal or Attack) of a test sample.

### **Files Description**

- intrusion\_detector.py: Script to train and predict network activity.
- ids\_model.joblib: Saved Decision Tree model after training.
- sample\_network\_data.csv: Example network traffic data.

#### **Features Used**

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The model uses the following features:

- duration: length of connection

- protocol\_type: protocol used (e.g., TCP/UDP)

- src\_bytes: bytes sent from source

- dst\_bytes: bytes sent to destination

- count: number of connections to the same host