

# 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

1. Install the required libraries:

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

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