Network Packet Sniffer with Anomaly Alert System
Project Overview

This project captures live network packets, detects anomalies, logs them in a database, and visualizes traffic using a GUI.

Folder Structure

```
packetsniffer/
│
├── main.py
├── gui.py
├── sniffer.py
├── analyzer.py
├── db.py
├── alert.py
├── requirements.txt
└── packets.db
```

Requirements
Python 3.8+

Packages:
scapy
matplotlib
tk
sqlite3

Setup Instructions
Install dependencies:

pip install scapy
GUI Window:

Start Sniffer → begins live packet capture

Stop Sniffer → stops GUI logic

Live bar graph:

Blue bars → normal IPs

Red bars → suspicious IPs (alerts triggered)

Database and Logs

Database: packets.db stores all captured packets.

Alerts log: alerts.log contains all triggered alerts.