



Denial of Service(DoS) attack detection system

What is a Denial of Service(DoS) attack?

- > Denial of service is a type of cyber attack that is a topic of great concern today.
- > When the Denial of service attack occurs, the system becomes inaccessible to its legitimate users.
- > The attack is successfully achieved by directing the traffic to the target server.
- > The attacker sends a lot of requests to the server that it cannot handle which makes the system inaccessible to its users.
- > These attacks are dangerous for organizations because they can cause huge financial as well as reputational losses.



We are students of Ahmedabad university.

This is our group project for the course ENR200: Design, Innovation, and Making.

We have worked together to design and create a Denial of services(DoS) attack detection system under the guidance of professor Jaina Mehta.

There are 7 members in our team with different skill sets and we have put all our skills together to create this project.

Team

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attack detector

Enter the name of csv file to be examined :--->

Instructions:

You must have .csv file containing the details about the traffic.

Your .csv file must be in the same folder as the application.

The .csv file must contain following fields:

1. Source IPs
2. Time Duration
3. Destination IPs
4. Frame Length
5. Protocol type



Import file



Detect



Classify



Visualize



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attack detector

Enter the name of csv file to be examined :--->

safe_1.csv

Instructions:

You must have .csv file containing the details about the traffic.
Your .csv file must be in the same folder as the application.

Woo! hoo!

You are Safe

The .csv file must contain following fields:

1. Source IPs
2. Time Duration
3. Destination IPs
4. Frame Length
5. Protocol type



Import file



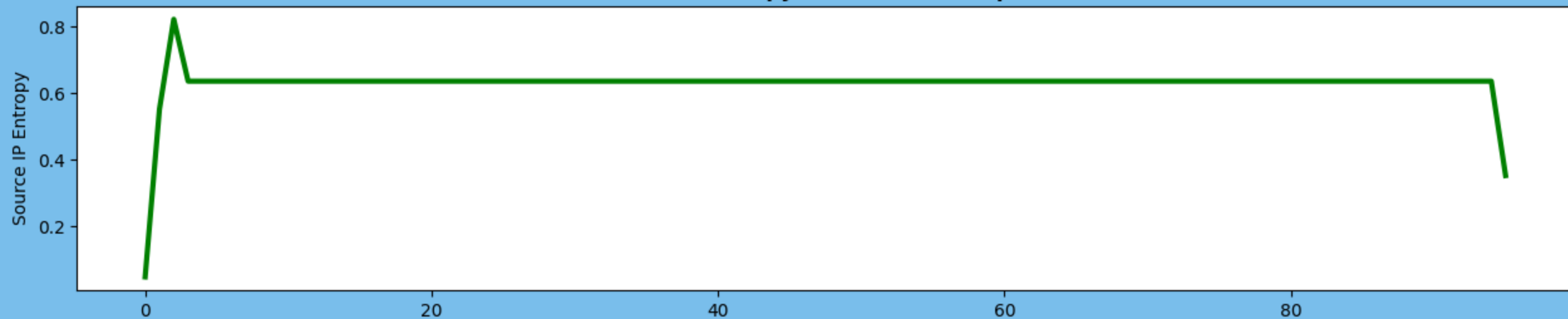
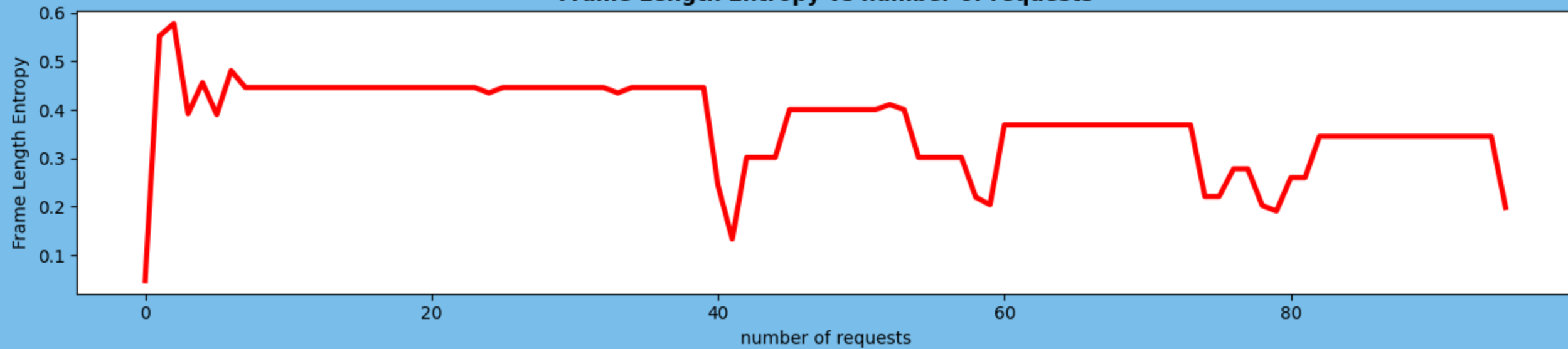
Detect



Classify



Visualize

Source IP Entropy vs number of requests**Frame Length Entropy vs number of requests**



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attack detector

Enter the name of csv file to be examined :--->

unsafe_1.csv

Instructions:

You must have .csv file containing the details about the traffic.

Your .csv file must be in the same folder as the application.

Oops!!!

Your system is under attack !!!

The .csv file must contain following fields:

1. Source IPs
2. Time Duration
3. Destination IPs
4. Frame Length
5. Protocol type



Import file



Detect

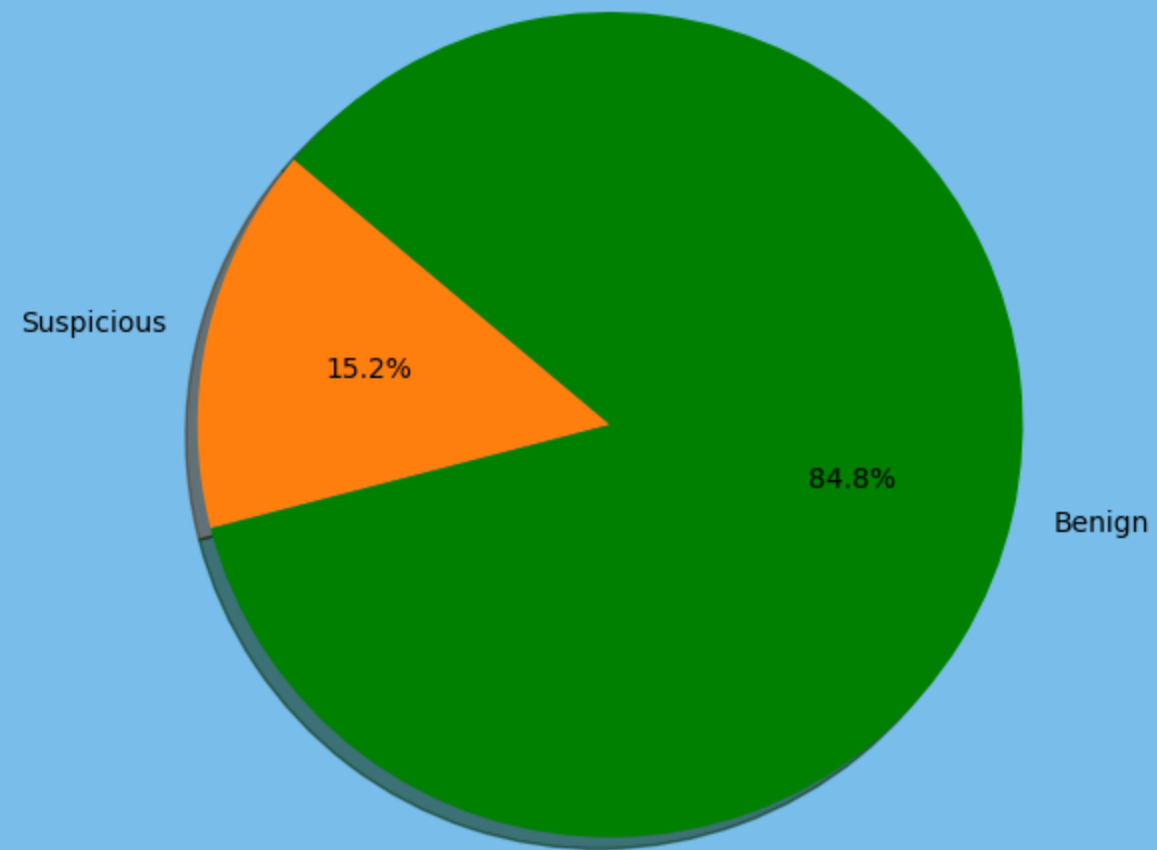


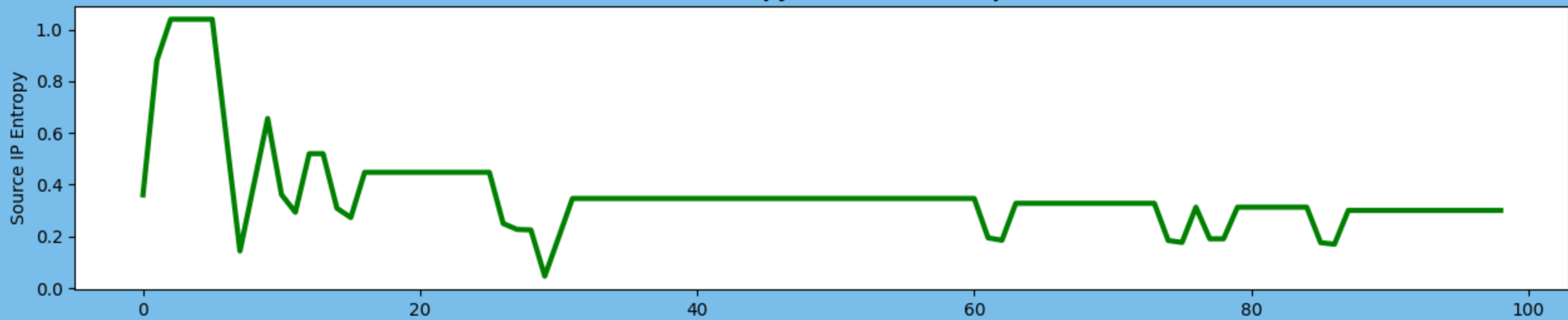
Classify



Visualize

Traffic Classification



Source IP Entropy vs number of requests**Frame Length Entropy vs number of requests**