




# Pratismith G.


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## Profile

Entry-level Cybersecurity Engineer with a strong foundation in ethical hacking, malware analysis, and web security. Proficient in penetration testing, reverse engineering, and security assessment using industry-standard tools across multiple Linux environments.

## Education

**B.Tech, Computer Science Engineering, Dibrugarh University**

2021 – present  
Dibrugarh, India

## Professional Summary

Cybersecurity enthusiast skilled in penetration testing, vulnerability analysis, and security assessment. Proficient in deploying ethical hacking tools and frameworks across diverse Linux-based environments. Committed to securing, analyzing, and mitigating cyber threats in real-world environments.

## Technical Skills

- **Cybersecurity & Reverse Engineering:** Burp Suite, Nmap, Nessus, Metasploit, Maltego, Hydra, Radare2 (Reverse Engineering), Malware Analysis, Steganography, Web Application Security, Network Security
- **Programming Languages:** Python, C++, C, HTML, CSS, JavaScript
- **Machine Learning & AI:** Graph Neural Networks (GNN)
- **Databases & Backend:** MySQL, Firebase, MongoDB
- **Tools & Frameworks:** Node.js, React, Streamlit, Tkinter, Scapy
- **Operating Systems:** Kali Linux, ParrotOS, Ubuntu
- **Deployment & DevOps:** Netlify

## Internship

- **Edunet Foundation, Cyber Security (AICTE Internship)**  
Conducted over 10 cybersecurity exercises, including Steganography, SQL Injection, IDS, and cryptographic methods, improving detection speed by 25%.
- **Indian Institute of Technology Guwahati, Artificial Intelligence and Machine Learning**  
Built and deployed a movie recommender system achieving 87% user preference match accuracy, enhancing user engagement in test environments.
- **Office of the Executive Engineer, Govt. of Assam, Asom Mala Project Intern**  
Supported infrastructure planning for road development under Asom Mala, streamlined workflow documentation and reduced project reporting errors by 20%.

Jan 2025 -  
Feb 2025  
**Remote**

Aug 2023 -  
Sep 2023  
**Remote**

Aug 2022 -  
Sep 2022  
**Sivasagar,  
India**

## Certifications

- Google Cloud Computing, *Google Cloud* Sep 2024 – Nov 2024
- Machine Learning, *Internshala* Jun 2024 – Aug 2024
- Web Development and Designing , *Oasis Infobyte* Jun 2024 – Jul 2024
- Web Development, *Internshala* Mar 2023 – Jul 2023
- Ethical Hacking Course, *Internshala* Jan 2023 – Mar 2023
- Ethical Hacking, *Homeflic Wegrow* Jan 2022 – Feb 2022

## Projects

### • **SniffNet: Packet Sniffer**

Mar 2025 – Apr 2025

Designed a Python-based packet sniffer using Scapy and Tkinter, capturing up to 55 packets/sec with <1 s latency, enhancing real-time traffic analysis. | **Python, Tkinter, Scapy, Threading**

### • **PassStrong: Password Strength Checker**

Feb 2025 – Feb 2025

Created a password strength analyzer with 95% accuracy using entropy scoring and custom heuristics to assess user-generated passwords. | **HTML, CSS (Tailwind), Javascript, Flask, REST API**

### • **StegaCrypt: Steganography Message Encoder**

Jan 2025 – Feb 2025

Engineered a steganography tool with 98% message retrieval accuracy using LSB encoding. | **Python, OpenCV, Least Significant Bit (LSB) Encoding, Streamlit**

### • **Neighbourhood: Cafe Website**

Nov 2024 – Dec 2024

Built a café website boosting online visibility by 40% using Firebase and responsive design. | **HTML, CSS, Javascript, Firebase**

### • **Graph-Based Malware Analysis Using Graph Induction Learning:**

Oct 2024 – Present

Building a model to classify files as Malicious or Benign using Control Flow Graphs (CFGs). | **Python, Radare2, Pytorch, Graphviz, Graph Neural Networks**

### • **Resultify: Student Result Generation System**

Sep 2024 – Nov 2024

Automated result processing for 50+ students, reducing manual effort by 70%. | **JavaFX, FXML, Core Java, JDBC, MySQL**

### • **Detecting Fake News with AI:**

Aug 2024 – Present

Constructed an AI-powered fake news classifier achieving 92% accuracy using RNNs, CNNs, and Transformer models. | **Python, Streamlit, Keras, TensorFlow, Pandas, Scikit-learn, NLTK, TfidfVectorizer**

### • **Detecting Lease price with ML & historical data:**

May 2024 - Jul 2024

Built a house price prediction model with <10% error, leveraging historical data and ML techniques. | **Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow, Streamlit**

## Leadership / Extracurricular

### • **Student Convener, METAPOISE v1.0**

2024

Annual Techno Cultural Fest of Department of Computer Science and Engineering, Dibrugarh University

### • **Brand Ambassador, Physics Wallah**

Jan 2024 - Present

### • **Class Representative, Dept. of CSE**

Mar 2022 - Present