



Biswadeb Mukherjee

Ethical Hacker | Pentester | Malware Developer



+91 9836763466



biswadebmukherjee941@gmail.com

Objective

Dynamic professional with 5 years of experience in cybersecurity research, Pentesting, Computer Forensics & Anti-Forensics Methodologies, Full-stack development, and prompt engineering. Skilled in active and passive reconnaissance using tools like Censys, Shodan, and Criminal IP. Proficient in DNS analysis, IDS/IPS systems, and network security. Adept at leveraging AI techniques in offensive security to design highly impactful threats to deliver maximum destruction and developing secure software solutions using AI with Agile methodologies to address complex cybersecurity challenges while ensuring user-end satisfaction and impactful results.

Professional Experience

Mentor & Participant | IEEE-IC Standard Hackathon 16-18 December 2024

- Guided the team in planning, execution, and problem-solving while actively contributing to Project FlowGuard
 - Got in the Top 5 Finalists in India through collaborative efforts in the IEEE Standard Hackathon.
 - Strengthened leadership, teamwork, and technical expertise through dual roles.
-

Projects

FlowGuard - Securing Every Packet December 2024

- IDS/IPS Benchmarking solution with visual plotting, with API Integrations
- Static Deployment in the cloud, VPS server, IDS/IPS monitoring.

Incognito Vault - Secure Web Application June 2024 - Present

- One of the most secure web applications built with Flask, customised protections from different types of hacking attacks
- Personalised dashboard which can be tailored for different needs
- Web application that can help individuals, businesses, and enterprises with their different needs.

Mayabati - Your AI Chef (Chatbot) 2023 - April 2024

- The Mayabati project is an AI-driven culinary assistant aimed at making everyday cooking easier through tailored recipe and dietary suggestions. It already produces valuable outcomes utilising Python along with a range of AI libraries and APIs.
- Perfect for individuals with hectic schedules, Mayabati optimises meal planning and offers pertinent recommendations. With new functionalities introduced, it continuously adapts to improve your cooking experience.

Note: All my projects are available in my [GitHub repository](#).

Education

Guru Nanak Institute of Technology

- Bachelor of Computer Application 2022-Present

ST. XAVIER'S INSTITUTION

- ISC 2020 - 2022
 - ICSE 2019 - 2020
-

Skills

Cybersecurity Tools: Burp Suite, Wireshark, Criminal IP, etc.

- Ethical Hacking & Penetration Testing
- Advanced Reconnaissance Techniques
- Vulnerability Assessment & Exploit Development

Artificial Intelligence & Machine Learning

- AI Model Training & Optimization
- Prompt Engineering for AI Systems
- Natural Language Processing (NLP)

Software Development

- Full-Stack Development (Frontend & Backend)
- Proficiency in Programming Languages: Python
- Building Scalable and Secure Applications

Research & Innovation

- Cybersecurity Research & Threat Analysis
- Designing Innovative Solutions to Technical Challenges
- Experimenting with Cutting-Edge Technologies

Certificates

- Ethical Hacking Essential
- Full Stack Development

EC-Council | 2024

Internshala | 2023