# Ananya Bhattacharya

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## PROFILE SUMMARY

An adaptable and fast-learning cybersecurity enthusiast, holding a Bachelor's in Computer Applications and am currently pursuing a Master's in Cybersecurity. Passionate about protecting digital landscapes, I specialize in incident response, network security, penetration testing, and endpoint security. With hands-on experience in Metasploit, XSS scripting, and Python, I have developed projects integrating machine learning and OCR for security applications and continuously seek opportunities to enhance my skills in threat detection, risk mitigation, and ethical hacking.

## EXPERIENCE

**Space Applications Centre, India Space Research Organization**  **August 2025 - Ongoing**
*Internship Trainee*  *Ahmedabad, Gujarat*
- Cyber Forensics
- Data Mining
- Vulnerability Testing
- Data Analysis

**State Cyber Cell CID Crime, Gujarat Police**  **April 2025 - July 2025**
*Internship Trainee*  *Gandhinagar, Gujarat*
- Digital Forensics
- Social media fraud detection
- Data Analysis

**Hacktify**  **January 2025 - April 2025**
*Cyber Security Intern*  *Kherva, Gujarat*
- Cross Site Scripting
- HTML and SQL injection
- Insecure Direct Object References

**Hack Secure**  **February 2025 - March 2025**
*Cyber Security Intern*  *Kherva, Gujarat*
- Incident Response
- Web Application security
- Secure Monitoring and Incident Investigation

**CyberSecurity Virtual Internship Program**  **March 2022 - August 2022**
*Intern - by Mastercard*  *Kolkata, West Bengal*
- Design a phishing email simulation
- Interpret phishing simulation results

**CyberSecurity Virtual Internship**  **March 2022 - May 2022**
*Intern - by Palo Alto CyberSecurity Networks Academy*  *Kolkata, West Bengal*
- VAPT (Vulnerability Assessment and Penetration Testing)
- Digital Forensics
- Web and network pentesting

## EDUCATION

**Ganpat University**  **2024-2026**
*Masters in IT Cyber Security*  *Kherva, Gujarat*

**Institute of Engineering and Management**  **2020-2024**
*Bachelors of Computer Applications*  *Kolkata, West Bengal*

**Jogamaya Memorial Institute**  **2018-2020**
*Standard XII*  *Singur, West Bengal*

**St Joseph's Convent**  **2006-2018**
*Standard X*  *Chandannagar, West Bengal*

## TECHNICAL SKILLS

- Python scripting, Java
- Web & Network Penetration Testing
- Cryptographic Protocols
- Active-Directory & Burp Suite
- SOC and Splunk
- Basic Blue teaming
- Security Information & Event Management(SIEM)
- Insecure direct object reference(IDOR)
- Intrusion detection
- Network & Cyber forensics
- Cloud & Blockchain Security
- Malware Analysis

## PROJECTS

**Honeypot: Rogue Snare** | Python, Flask, Nosql, Ip Logger          **2025**

- Attracts attackers by simulating vulnerable web environment as a decoy.Logs and stores every attack attempt with attack type details.
- Captures attacker IP, live geographical location, and device information.Tracks the number of attacks per IP and attack patterns.
- Provides real-time monitoring and detailed attack analytics.Helps in early detection of threats and threat intelligence gathering for proactive defense.

**Created an Application for Malware Analysis** | Python, NoSQL          **2025**

- ∗ This technology stack supports file scanning, metadata extraction, QR code processing, and real-time USB monitoring with malware detection functionality and stores the malicious file in the backend.

**Create an Application to detect Cloned Websites** | NLP, OCR, TensorFlow          **2025**

- · The application detects clone or phishing websites by analyzing website URL patterns, domain similarity, site content structure, and visual appearance using AI/ML.
- · It identifies fraudulent mimicry to protect users from credential theft and malicious attacks, providing real-time alerts and blocking access to suspicious sites.

**Clustering of Recipes** | Scikit-learn, K-Means, Hierarchical Clustering, NLP          **2023**

- · Developed an AI/ML-based recipe clustering system using K-Means and Hierarchical algorithms.
- · Applied feature engineering on ingredients, cuisine, and cooking methods for grouping similar recipes.
- · Technologies used include Python, scikit-learn, and pandas for effective data preprocessing and clustering.

**Automatic Number Plate detection using AI/ML** | OpenCV, YOLO, Python, OCR          **2022**

- · Developed an Automatic Number Plate Recognition (ANPR) system using AI/ML techniques.
- · Utilized OpenCV for image processing, YOLO for real-time license plate detection, and OCR (Tesseract/EasyOCR) for character extraction.

## CERTIFICATIONS

- ∗ eLearnSecurity Junior Penetration Tester (eJPT v2) by INE
- ∗ Certified Ethical Hacker (CEH) by EC Council
- ∗ Introduction to Digital Forensics by Security Blue Team
- ∗ Fundamentals of Network Security by Palo Alto CyberSecurity Networks Academy
- ∗ Fundamentals of SOC by Palo Alto CyberSecurity Networks Academy
- ∗ Fundments of Cloud Security by Palo Alto CyberSecurity Networks Academy
- ∗ Cisco Introduction to Packet Tracer
- ∗ Cisco Certified Network Associate (CCNA)
- ∗ Ethical Hacking by Indian School of Ethical Hacking

## LANGUAGES

- ∗ English
- ∗ Hindi
- ∗ Bengali
- ∗ Spanish