Ashit Mallick

+91-9555217020| airdevil2003@gmail.com | linkedin.com/in/ashit-mallick-a7a386250 | github.com/Wingedarrows03 |

TECHNICAL SKILLS

- **Programming & Scripting Languages:** C++, Python3, Bash
- **Tools & Technologies:** AWS (EC2, IAM, S3), MySQL, DynamoDB, Linux, Git, GitHub
- **Core Knowledge:** Data Structure and Algorithm (DSA), Object Oriented Programming (OOPS), Networking, OWASP Top 10, Vulnerability Management

PROJECTS

RakshaChakra— User Multi Factor Authentication , ML based anamoly detection, AWS, Docker — [GitHub] **Jul 2025**

- Engineered a highly available, multi-factor user authentication service leveraging Firebase Realtime Database for secure data persistence and robust user verification.
- Designed and implemented data privacy standards by deploying encryption-at-rest for all PII (Personally Identifiable Information) across the backend and application storage layer.
- Deployed and managed a scalable machine learning pipeline on AWS Elastic Beanstalk , enabling real-time, behavior-based fraud detection to secure financial transactions.
- Integrated an ML-driven anomaly detection engine to analyze high-volume, real-time phone sensor data (accelerometer, gyroscope), generating a dynamic security score to flag and secure potentially compromised user sessions.

TIFA (**Threat Intelligence Feed Aggregator**)— Python, Security Dashboard , Gradio , SQLite— [GitHub] **Aug 2025**

- Architected and developed a high-throughput, AI-driven Threat Intelligence Platform using the Google Gemini API to aggregate, de-duplicate, and unify data from over 5 real-time threat feeds.
- Engineered a scalable backend architecture using Python and SQLite to manage continuous data influx, powering a responsive Gradio web dashboard for real-time visualization and interactive analysis.
- Implemented a configurable analysis engine that provides 95% accurate threat classification and automated severity assessment, allowing analysts to efficiently prioritize high-risk alerts.
- Developed a regex-optimized automation system in Python to efficiently parse unstructured data, successfully extracting and categorizing 8+ distinct types of Indicators of Compromise (IoCs) (e.g., IP addresses, domains, file hashes).

ACHIEVEMENTS & CERTIFICATIONS

- **TCS CodeVita (Global Competitive Programming Contest):** Successfully cleared Round 1 (Pre-Qualifier) and Round 2 (Qualifier), showcasing mastery of Data Structures and Algorithms (DSA) and advanced problem-solving skills under strict time constraints.
- **Société Générale Hackathon:** Secured 4th place and achieved a finalist position, demonstrating strong rapid prototyping, development skills, and problem-solving under pressure.
- **Canara Bank Hackathon '25:** Achieved Top 105 placement nationally out of over 4,000 participants, showcasing competitiveness and technical proficiency in building solutions at scale.
- **Competitive Programming (LeetCode & Codeforces):** Solved 100+ LeetCode questions to refine expertise in core DSA topics and achieved a Codeforces contest rating of 735, demonstrating consistent coding performance.
- **Cyber Shakti CTF (Indian Army):** Successfully captured 3 out of 4 flags in the national-level cybersecurity competition, demonstrating practical knowledge of system security, valuable for secure software development (DevSecOps).
- **Technical Writing:** Authored a high-impact technical blog post detailing malware analysis (e.g., viruses, worms, ransomware), demonstrating an ability to clearly document complex technical concepts.

EDUCATION

Vellore Institute of Technology, Bhopal **Aug 2022 – Jun 2026**

Bachelor of Technology (B.Tech), Computer Science and Engineering *CGPA: 8.2/10.0*