

# PALURI SAI SASIDHAR

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## Education

**Indian Institute of Information Technology & Management**

*Pursuing B.Tech in Computer Science and Engineering*

**June 2023 – Expected May 2027**

*Gwalior, Madhya Pradesh*

## Relevant Coursework

- Core CS: Data Structures, Operating Systems, Database Management (SQL).
- Security: Cryptography, Network Security, Penetration Testing (VAPT), Digital Forensics.
- Specialized: AI in Cybersecurity, Cloud Security, Secure SDLC.

## Projects

**NetHunter: Network Vulnerability Scanner** | *Python, FastAPI, Next.js, Nmap, SQLite*

**December 2025**

- Engineered a production-grade network reconnaissance tool using Python and the Nmap library to automate the identification of active hosts, open ports, and service versions across local network ranges.
- Architected a full-stack dashboard with Next.js 15 and FastAPI, integrating real-time scan progress visualization and a centralized SQLite database to store and track historical security assessments.
- Bridged network security theory with automated defense by implementing CVE (Common Vulnerabilities and Exposures) lookup logic, transforming raw scanning data into actionable security insights for risk mitigation.

**AI-Powered Phishing & Spam Detection Engine** | *Python, Scikit-Learn, NLP, Flask*

**November 2025 - December 2025**

- Developed an intelligent classification system to detect malicious phishing attempts and spam emails, utilizing Natural Language Processing (NLP) techniques like Tokenization and TF-IDF vectorization.
- Trained and evaluated multiple Machine Learning models (Naive Bayes, SVM, and Random Forest), achieving a 98%+ accuracy rate in distinguishing legitimate communications from security threats.
- Enhanced organizational Cyber Hygiene by architecting a backend pipeline that pre-processes incoming text data to identify common social engineering patterns and suspicious header indicators.
- Integrated a real-time web interface using Flask to allow users to verify the safety of suspicious email content before interaction, mitigating the risk of credential theft.

## Achievements / Certifications

- Achieved a rank of 8741 in JEE Mains 2023
- Cybersecurity Fundamentals by IBM – Gained foundational skills in threat landscapes, encryption, compliance, and real-world applications of security principles.
- Google Cybersecurity Professional Certificate – Completed on Coursera, covering threat modeling, risk assessment, network security, and hands-on security tools aligned with industry practices.
- Datacom Cybersecurity Job Simulation on Forge in Risk Assessment and Incident Response
- Tata Cybersecurity Security Analyst Job Simulation on Forge in Identity Access Management (IAM)

## Technical Skills

**Languages:** C/C++, Python, Java, HTML, CSS, Javascript, SQL

**Database Systems:** MySQL, Postgre SQL

**Developer Tools:** VS Code, Git, Latex, Wireshark, Splunk, Linux CLI, Nmap, Burpsuite, John the ripper, Metasploit

## Leadership / Extracurricular

**Member of Student Activity Council (Cultural) - 2024 to 2025**

- Organized and coordinated Janmashtami celebration at overseeing event planning, logistics, and cultural programming to promote community engagement and traditional values.
- Contributed to the organization of Aurora, the annual cultural festival, by coordinating the IPL Auction event and independently organizing a Pictionary competition to enhance engagement and entertainment.
- Served as a core organizer for Orientation Week, leading planning, coordination, and engagement activities to welcome and onboard junior students, fostering a supportive and inclusive campus culture.

## Sports

- Black Belt Karateka with 9+ years of training, participated in 30+ national, state and regional tournaments and secured gold, silver and bronze medals at various tournaments, demonstrating discipline, resilience, and competitive excellence.
- Trained swimmer proficient in multiple strokes, demonstrating physical endurance, technique, and commitment to continuous self-improvement through regular practice and competitive participation.