

PERAPU MADHU

+91-9392475175 | madhuperapu@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFILE

Diligent and dedicated Computer Science Engineering student with a strong commitment to honesty, loyalty, and continuous learning. Known for fostering respect and acceptance within diverse cultural settings. I specialize in applying Artificial Intelligence and Machine Learning technologies to solve real-world problems. Passionate about data-driven innovation, model optimization, and building intelligent systems that drive meaningful impact. Committed to continuous improvement and operational excellence in AI applications

EXPERIENCE

• Artificial Intelligence and Machine Learning Engineer [🌐]

Stag Innovations Pvt.Ltd

- Built an AI-powered job portal with resume parsing, job recommendations (BERT + GNN), and live interview simulation with speech analysis.
- Integrated fairness dashboards and explainable AI (SHAP) to ensure unbiased hiring. Achieved 85% job matching and reduced recruiter screening time by 70
- Developed the frontend using React, ensuring a responsive, user-friendly interface with seamless navigation and real-time interaction.

• Cybersecurity & AIML Intern [🌐]

July 2024 -December 2024

Cybersecurity Based(NIDS),Stag Innovations Pvt.Ltd

Remote,Online

- Developed an AI-powered Network Intrusion Detection System (NIDS) for real-time detection of cyber threats in both cloud and on-premises environments.
- Integrated machine learning models with automated threat response capabilities, reducing incident response time and enhancing detection accuracy.
- Designed and deployed a real-time monitoring GUI dashboard to visualize intrusion alerts, system status, and network traffic patterns for SOC teams.
- Conducted Vulnerability Assessment and Penetration Testing (VAPT) by analyzing traffic behavior, identifying potential attack vectors, and reporting security gaps.
- Applied supervised and unsupervised ML algorithms to detect threats such as DDoS, port scanning, brute force, and zero-day exploits.

EDUCATION

• Sir Padampat Singhanian University

2021 - 2025

B.Tech in Computer Science & Engineering(AI - ML)

(Udaipur, Rajasthan)

• Sri Chaitanya Junior College

2019 - 2021

Pre-University Education

(Hyderabad, Telangana)

PROJECTS

• AI-powered job portal

- Built an AI-powered job portal with resume parsing, job recommendations (BERT + GNN), and live interview simulation with speech analysis.
- Integrated fairness dashboards and explainable AI (SHAP) to ensure unbiased hiring. Achieved 85% accuracy in job matching and reduced recruiter screening time by 70%
- Developed the frontend using React, ensuring a responsive, user-friendly interface with seamless navigation and real-time interaction.

• Email Extractor

- Email Extractor for Recruitment Agencies – Developed an automated tool using Python to extract and organize job-related emails by date, sender, and content, improving recruiter efficiency.
- Integrated IMAP-based filtering, attachment handling, and a dashboard for analytics and user management.

• LoanInsDeals – Digital Lending Platform Security Assessment

- Led full-scope security assessments of the **LoanInsDeals** platform, evaluating web, Android, and backend systems to uncover and address security weaknesses.
- Applied both automated and hands-on testing techniques using tools such as **Burp Suite**, **OWASP ZAP**, **Nessus**, and **Wireshark**, focusing on real-world threat scenarios and industry best practices.

- Uncovered vulnerabilities mapped to **OWASP Top 10**, and reinforced system security through **CIS benchmark**-based hardening of infrastructure components.
- Created in-depth vulnerability reports featuring **CVSS scores**, business impact ratings, and tailored remediation strategies for development and leadership teams.
- Continuously tracked threat landscapes and compiled actionable **threat intelligence** to enhance incident readiness and ensure regulatory alignment.

SKILLS

Programming & Development: Python, AIML, SOC Analyst, MySQL, HTML, CSS, R, Metasploit, CVSS Scoring and Risk Classification, Front-End Development, Power BI

Cyber Security: Vulnerability Assessment and Penetration Testing, Nmap, OWASP ZAP, Burpsuit, OSINT Tools, Nessus, SIEM, Metasploit, CVSS Scoring and Risk Classification, Splunk

Soft Skills: Teamwork, Adaptability, Time Management, Problem Solving, Team Member

Core Subjects: Artificial Intelligence-Machine Learning, computer networks, DBMS, Cyber Security

CERTIFICATIONS

- ISC2 Candidate Badge, awarded by ISC2 – March 4, 2025
- Ethical Hacking 101: Beginner's Guide to Ethical Hacking, Simplilearn – June 12, 2025
- AI Security & Governance, Securiti – June 13, 2025

ACHIEVEMENTS

- Achieved 2-time winner and 1-time runner-up in intra-college volleyball tournaments, demonstrating consistent performance, teamwork, and competitive excellence across multiple seasons.