Abbu Nithees Reddy

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SUMMARY

Software Engineer with hands-on experience in building AI-powered platforms using Python, and React. Developed a job-matching system with 85% accuracy and real-time interview analytics using BERT, GNN, and SHAP. Skilled in full-stack development, NLP, and explainable AI. Also experienced in security-focused development through VAPT and threat detection tools.

EXPERIENCE

- **Artificial Intelligence and Machine Learning Engineer [🌐]** — *January 2025 - Present*
  Stag Innovations Pvt.Ltd — On-Site

  ◦ Engineered an end-to-end **AI-powered job platform** integrating resume parsing (OCR + NLP), personalized job recommendations (BERT + GNN), and real-time interview simulation with **speech, lip-sync, and eye movement analytics**.

  ◦ **Reduced recruiter screening time by 70%** and achieved **85% job match accuracy** using explainable AI (SHAP) to ensure unbiased, transparent hiring.

  ◦ Led the **front-end development in React** and integrated secure coding assessment modules with live behavioral monitoring.

  ◦ Built a **real-time monitoring engine** to detect tab switches, lack of focus, and proxy behavior—enhancing the integrity of remote interviews.

  ◦ Developed an **Intelligent Email Extraction Tool** using Node.js, OCR (Tesseract), and RoBERTa to automatically classify and organize recruitment emails, streamlining recruiter workflows.

- **Cybersecurity & AIML INTERN [🌐]** — *July 2024 - December 2024*
  Cybersecurity, Stag Innovations Pvt.Ltd — Hybrid

  ◦ Built **VulnGuard**, an AI-based threat detection and vulnerability management tool using supervised and unsupervised ML models. Supervised/unsupervised ML models to detect port scans, DDoS patterns, and malware behavior in real-time.

  ◦ Implemented behavior-based anomaly detection for **port scans, DDoS, and brute-force attacks** in lab-simulated environments; aligned detection with **MITRE ATT&CK tactics**.

  ◦ Conducted **VAPT audits** (web, mobile, backend) for live platforms (LoanInsDeals, Padmasai) and reported 15+ critical vulnerabilities (CVSS $\geq$ 7) with mitigation aligned to **OWASP Top 10 and CIS benchmarks**.

  ◦ Leveraged **Burp Suite, Wireshark, Nmap,** and **ADB (Android Debug Bridge)** to identify misconfigurations, escalate findings, and strengthen platform security posture.

SKILLS

- **Technical Skills:** Front End Development, Python, Artifical Intelligence and Machine Learning, MySQL, Power BI, Data Analysis, Cybersecurity, SOC
- **Cybersecurity:** Burp Suite, OWASP ZAP, Tenable Nessus, Splunk, Wazuh, Wireshark, Metasploit, MobSF, Linux, SQLMap, Nmap, Nikto, XSStrike, OpenVAS, DNSRecon
- **Soft Skills:** Cross-functional collaboration, Time Management, Analytical Thinking, Adaptability
- **Core Subjects:** Computer Networks, DBMS, Artificial Intelligence-Machine Learning, Cyber Security

PROJECTS

- **JobGenie – AI-Powered Job Portal** — *January 2025 - Present*

  ◦ Tools: Python, React, BERT, GNN, SHAP, AWS

  ◦ Designed an intelligent job portal with **AI-based resume parsing and job recommendations**, coupled with **live interview simulations.**

  ◦ **Impact:** Achieved 85% job match accuracy and reduced recruiter screening time by 70%.

- **Email Extraction & Classification System** — *January 2025 - Present*

  ◦ Tools: Node.js, TypeScript, Tailwind CSS, OCR, Tesseract, RoBERTa

  ◦ Built a tool to **extract and classify unstructured emails** from recruiters by subject and company, reducing manual sorting efforts through intelligent NLP models.

  ◦ Designed a **minimalist UI** for rapid recruiter interaction and clean data extraction.

  ◦ **Impact:** Streamlined recruiter workflows by automating high-volume email monitoring and classification.

- **LoanInsDeals – Digital Lending Platform Security Audit** *July 2024 - December 2024*
  - Tools: Burp Suite, OWASP ZAP, Nmap, Android Debug Bridge (ADB), CIS Benchmarks
  - Performed comprehensive security testing on the **web, Android app, and backend infrastructure.**
  - Reported 15+ critical vulnerabilities (CVSS $\geq$ 7) and developed remediation plans, improving security compliance with industry standards.
  - **Impact:** Elevated platform security to meet internal and regulatory thresholds.

EDUCATION

- **B.Tech – Computer Science & Engineering (AI - ML)** *2021 - 2025*
  Sir Padampat Singhania University (Udaipur, Rajasthan)
- **Pre-University Education (MPC)** *2019 - 2021*
  SPR Junior College (Warangal, Telangana)

LANGUAGES

- **English**
- **Hindi**
- **Telugu**

CERTIFICATIONS

ISC2 Candidate	**ISC2**	*March 2025*
Penetration Testing Professional Certificate	**Cybrary**	*June 2025*
AI Security & Governance	**Securiti**	*June 2025*

ACHIEVEMENTS

- **Champion – University Intercollege Volleyball League (2023, 2024)**
- **Head, Cluster Club (2023, 2024)** Led and organized intercollegiate volleyball events.
- **Member, Coding and Programming Club –** Active in technical workshops and coding competitions.