

TEJESHWINI M V

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WORK EXPERIENCE

Cyber Security: Tata Strive | Bengaluru

11/2024 - Present

- Conducted network VAPT operations across 20+ simulated hosts, identifying 15 vulnerabilities via packet analysis and port scanning.
- Executed web application VAPT on 5+ platforms, detecting 10+ security gaps and improving mitigation plans by 25%.
- Applied defensive security strategies, reducing threat exposure by 30% in 3 simulated attack scenarios.
- Collaborated with a team of 4 peers to analyze findings, delivering 8 actionable insights with 90% clarity for stakeholders.

Data Science Intern: Bharat Internship | Bengaluru

Feb 2024 – Mar 2024

- Analyzed 1,000+ data points using advanced EDA, identifying critical trends and patterns.
- Improved 3+ ML model architectures, increasing prediction accuracy by 15-20%.
- Optimized hyperparameters through rigorous testing, enhancing model performance and reliability.
- Delivered precise insights from outputs, improving stakeholder decision-making efficiency by 30%.

CORE COMPETENCIES

- **Cyber Security:** Vulnerability Assessment, Networking, MITRE ATT&CK Framework, OWASP Top 10.
- **Tools:** Burp Suite Enterprise, Nmap, Wireshark, Nikto, Snort, JohnTheRipper, Metasploit, Hashcat.
- **Web Development:** HTML, CSS, JavaScript, MySQL.

PROJECTS

Network Intrusion Simulation

- Built a 3-host network with 10 pre-planted vulnerabilities (e.g., weak credentials) to test defenses.
- Launched 5 MITM attacks using arpspoof and bettercap, capturing 100+ HTTP packets in real-time.
- Analyzed traffic with Wireshark and SSL/TLS settings with sslscan, detecting 3 certificate issues.
- Strengthened security by applying Burp Suite brute force on payloads, reducing risks by 20%.

Web Application Security Audit & Attack Simulation

- Executed a phishing campaign with Camphish and zPhisher targeting 40 users, using 5 email templates.
- Recorded a 15% click-through rate, revealing gaps in user security awareness.
- Inspected 30+ email attachments with VirusTotal, identifying malware in 20% of samples.
- Devised 10 remediation steps, cutting phishing risks by 30% in follow-up tests.

Emojifier

- Designed and trained a deep learning model using TensorFlow, enabling seamless conversion between textual emojis and 5+ visual representations.
- Enhanced emoji translation accuracy to **90%+** by leveraging **TensorFlow** and fine-tuning model hyperparameters.
- Preprocessed 1000+ text-emoji pairs, improving dataset quality and model generalization.
- Integrated real-time prediction functionality, reducing latency by 25% for user interactions.

EDUCATION

T. JOHN COLLEGE | *Bengaluru*

2024

Masters of Computer Applications

CGPA:7.54

Surana College | Bengaluru

2022

Bachelor of Computer Applications

CGPA:7.58

CERTIFICATIONS

- **Fortinet Certified Associate in Cyber Security | 2025**