

Dhayanidhi S

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Summary

Software Engineering undergraduate specializing in AI & ML with strong hands-on experience in building scalable, performant web applications and data-driven systems. Proficient in Python, SQL, and frontend technologies, with experience delivering end-to-end modules from planning to deployment. Comfortable working in fast-paced, ambiguous environments, translating business requirements into clean, secure, and reusable code. Strong ownership mindset and eager to contribute to high-impact SaaS products.

Education

Vellore Institute of Technology , Bhopal, Madhya Pradesh, India	Jun 22 - Present
B.Tech in Artificial Intelligence and Machine Learning	CGPA - 8.34
ABS Vidhya Mandhir, Thiruvallur, Tamil Nadu, India	Jun 21- May 22
Senior Secondary Education	Percentage 74.8 %

Skills

- **Languages:** Python, SQL, HTML, CSS, JavaScript
- **ML / CV:** TensorFlow, OpenCV, YOLO, CNN, KNN
- **Tools:** Git, Power BI, Android Studio
- **Security:** Burp Suite, Nmap, Nessus, OWASP Top 10
- **Soft Skills:** Problem-Solving, Communication, Teamwork, Ownership, Fast Learning

Work Experience

Auriseg Consulting Pvt. Ltd.	Nov 24 - Jan 25
<i>Vulnerability Assessment and Penetration Testing Intern</i>	
<ul style="list-style-type: none">• Conducted vulnerability scans using Burp Suite, Nmap, and Nessus, identifying critical security gaps aligned with OWASP Top 10.• Composed detailed reports adhering to ISO 27001 standards, prioritizing remediation of high-risk vulnerabilities.• Directed manual and automated testing processes to uncover injection flaws, broken authentication, and system misconfigurations.• Created secure code review checklists, significantly reducing vulnerability recurrence.• Partnered with security teams to verify findings and recommend actionable mitigations.	

Projects

Maven Market Sales Analytics Dashboard (LINK ↗)	Jul 25 - Aug 25
<ul style="list-style-type: none">• Developed Power BI dashboards with advanced DAX measures and SQL data prep for sales, returns, and profitability analysis.• Created interactive visuals (matrix, KPI cards, maps, treemap, gauge) for key metrics and trends.• Led stakeholder requirements gathering, delivering actionable business insights.	
Packet Sniffer using Python (LINK ↗)	Jul 25 - Aug 25
<ul style="list-style-type: none">• Built a packet sniffer using Python, Scapy, Nmap, and Wireshark for TCP/UDP/ICMP monitoring.• Established alerts for suspicious SYN scans and logged network traffic efficiently• Simulated network attacks to validate and demonstrate detection capabilities.	
TKS FARMING – Frontend Website (Demo ↗)	May 25 - Jun 25
<ul style="list-style-type: none">• Developed a responsive e-commerce platform for farmers hosted on GitHub Pages.• Integrated payment gateway and shopping cart functionality.• Administered SQL database for efficient order and inventory tracking.	
Helmet Number Plate Detection	Jan 24 – May 24
<ul style="list-style-type: none">• Built CNN-YOLO model to detect helmet use and license plates in traffic videos.• Integrated system with surveillance feeds for real-time traffic law enforcement.• Automated violation reporting for backend analytics.	
Plant Disease Detection	Aug 23 – Oct 23
<ul style="list-style-type: none">• Engineered a hybrid CNN-KNN model achieving over 92 percentage classification accuracy.• Designed a mobile interface for instant crop health diagnosis via image upload.• Executed field testing ensuring usability and accuracy with actionable insights.	

Certifications

- Power BI Data Analytics (Udemy [↗](#))
- Machine Learning with Python (Coursera [↗](#))
- Privacy & Security in Online Social Media (NPTEL [↗](#))

Co-Curriculars

Gen AI Hackathon – Accenture [↗](#)
Coding: Solved 70+ Data Structures and Algorithms problems on Geeks for Geeks. [↗](#)