Dhayanidhi S

Python Developer & Software Engineer

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Summary

B.Tech student with expertise in software development and Java programming, experienced in building robust, scalable applications. Proficient in designing full-stack solutions, working with databases, and applying machine learning concepts for real-world applications.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh, India — Jun 22 - Present
B.Tech in Artificial Intelligence and Machine Learning — CGPA - 8.35
ABS Vidhya Mandhir, Thiruvallur, Tamil Nadu — May 22
Senior Secondary Education — Percentage 74.8 %

Skills

- Programming: Python,SQL, HTML, CSS, JavaScript
- Frameworks/Tools: TensorFlow, OpenCV, YOLO, CNN, KNN, Android Studio, Git, Burp Suite, Nmap
- Soft Skills: Rapport Building, Stakeholder Management, Communication

Experience

Vulnerability Assessment and Penetration Testing Intern — Nov 24 - Jan 25
Auriseg Consulting Pvt. Ltd.

- 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

TKS FARMING – Frontend Website (Demo) — May 25 - Jun 25
- 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.

ML System for Visually Impaired (EyeVis) — Jul 2024 - Apr 2025
- Engineered a YOLO-based object detection system with real-time audio feedback.
- Used OpenCV and TensorFlow to improve model accuracy and responsiveness.
- Designed wearable prototype embedding Raspberry Pi for live navigation aid.

Helmet & Number Plate Detection (Traffic Enforcement) — Jan 2024 – May 2024
- 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
- Engineered a hybrid CNN-KNN model achieving over 92% 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

- Machine Learning with Python (Coursera)
- Computer Vision & Image Processing (Coursera)
- Privacy & Security in Online Social Media (NPTEL)
- Intro to Deep Learning with Keras (Coursera)

Co-Curriculars

Gen AI Hackathon – Accenture
Coding: Solved 70+ Data Structures and Algorithms problems on Geeks for Geeks.