Dhayanidhi S

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EDUCATION

VIT Bhopal University — Bhopal, India
B.Tech in Artificial Intelligence and Machine Learning ; GPA: 8.32/10 — June 2022 - Present

SKILLS

- **Languages:** Python, Java, Kotlin, SQL, HTML, CSS, JavaScript
- **Frameworks & Tools:** TensorFlow, OpenCV, YOLO, CNN, KNN, Android Studio, Git, Burp Suite, Nmap
- **Soft Skills:** Rapport Building, Strong Stakeholder Management, People Management, Excellent Communication

WORK EXPERIENCE

Auriseg Consulting Pvt. Ltd. — **Nov 2024- Jan 2025**

Vulnerability Assessment and Penetration Testing Intern

- Performed vulnerability assessments using tools like Burp Suite and Nmap, identifying critical security issues.
- Documented findings and reported threats in alignment with OWASP Top 10 and ISO 27001 standards.
- Collaborated with the cybersecurity team to prioritize and remediate high-risk vulnerabilities, improving overall system security posture.
- Executed manual and automated testing to uncover injection flaws, broken authentication, and misconfigurations.
- Assisted in creating secure code review checklists and best practices documents for developers to reduce recurring vulnerabilities.

PROJECTS

TKS FARMING – Frontend Website | LINK — **May 2025 – Jun 2025**

- Developed a responsive e-commerce platform with cart, quantity selector, and email integration using EmailJS.
- Deployed via GitHub Pages, improving accessibility and user engagement.
- Designed with mobile-first principles to ensure usability in rural and low-bandwidth environments.
- Integrated product ordering system with options for Cash on Delivery, UPI, and Card payments.
- Enabled admin dashboard and SQL database integration for managing bookings and sign-in data.

EyeVis – ML for Visually Impaired — **Jul 2024 – Apr 2025**

- Engineered a YOLO-based object detection system with real-time voice feedback for navigation aid.
- Improved detection accuracy by optimizing deep learning models using OpenCV and TensorFlow.
- Tested in controlled real-world environments to simulate usability for visually impaired users.
- Incorporated audio instructions in regional languages for inclusivity and accessibility.
- Designed a wearable prototype integrating Raspberry Pi and camera modules for real-time processing.

Helmet & Number Plate Detection — **Jan 2024 – May 2024**

- Built and deployed a CNN-YOLO model to identify helmet usage and license plates in traffic videos.
- Achieved 90%+ precision and recall across varied real-world datasets.
- Integrated with video surveillance feeds to enable real-time traffic law enforcement insights.
- Generated automated violation reports for backend storage and analytics.
- Applied image preprocessing techniques to enhance clarity under varied lighting conditions.

Plant Disease Detection — **Aug 2023 – Oct 2023**

- Designed and trained a hybrid CNN-KNN classifier to identify plant leaf diseases with over 92% accuracy.
- Contributed to early intervention tools for farmers to reduce yield loss.
- Implemented visual dashboards for farmers to monitor plant health with easy-to-understand alerts.
- Enabled mobile capture and upload feature for on-the-spot diagnosis.
- Conducted field testing with farmers to validate usability and accuracy in real agricultural environments.

CERTIFICATION

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

CO-CURRICULAR

Gen AI Hackathon – Accenture (Mar 2025 – Apr 2025)

- Developed a web-based AI system to deliver personalized product recommendations to users.
- GitHub: Repo
- Demo: Live Site