Tanuja Deshpande

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CAREER SUMMARY

Computer Science graduate with a strong focus on AI/ML, backed by DIAT-DRDO research experience and published work in IoT-driven landslide detection. Skilled in Python, innovation, and real-world problem-solving.

EXPERIENCE

Defense Institute of Advanced Technology - DRDO   Pune, India
AI/ML Intern   *July 2024 – Dec 2024*
- Built an object detection model using YOLOv8 to detect surface cracks on blades.
- Worked with Python, OpenCV, NumPy, and Ultralytics YOLOv8.

Cisco Networking Academy   Remote
Cyber Security Intern   *Apr 2023 – July 2023*
- Developed a Packet Flow Visualizer to demonstrate packet movement through networks.
- Enhanced understanding of traffic flow and security mechanisms.

PROJECTS

Hybrid Traffic Safety System | *YOLOv12, TrOCR, Python*   Jan 2025 – Apr 2025
- Developed an AI-based automated traffic monitoring system.
- Implemented Helmet Detection, Triple Ride Detection, and ANPR modules.

Random Quote Generator Website | *HTML, CSS, JavaScript*   Apr 2022 – May 2022
- Built an interactive website that displays new quotes dynamically.
- Demonstrated DOM manipulation, event handling, and clean UI design.

Food Ordering System | *python,Djanjo,mysql*   Apr 2022 – May 2022
- Built a food ordering system which helps to order food quicker.
- Used python in the backend and Django for admin portal also mysql to store the data.

TECHNICAL SKILLS

Programming Languages: Python,SQL
Web Development: HTML, CSS, JavaScript
Soft Skills: Problem-solving, Communication, Team Collaboration, Event Management

EDUCATION

Sipna College of Engineering & Technology   Amravati, India
B.E. in Computer Science & Engineering (CGPA: 9.21)   *2025*
Shri Shivaji Science College   Amravati, India
HSC — 89.17%   *2021*
Model High School, Talegaon   Maharashtra, India
SSC — 85.20%   *2019*

CERTIFICATES & TRAINING

- Advance Python - HOPE Foundation (2025)

- Google Cloud Computing Foundation (2023)

- Career Essentials in Generative AI — Microsoft & LinkedIn Learning (2023)

ACHIEVEMENTS

- Published research paper: *"Early Landslide Detection System Using IoT Sensors"* (IJAIIR, Vol. 11, 2024).

- Awarded prestigious Lila Poonawalla Foundation Scholarship (LG-2021).