

Moksh Doshi

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SUMMARY

Currently pursuing UG at VIT-Bhopal University in Computer Science and Engineering. As a Computer Science Student, I am seeking opportunities to contribute to large-scale web applications and engage in complete product development lifecycle from design to deployment. Using high-value skills to merge the Field of **IoT and Automation** with Computer Science.

PROJECT EXPERIENCE

PYTHON LIBRARY COMPATIBILITY MANAGER

Mar 2025 - Jun 2025

- **Developed a CLI tool** with RESTful PyPI API integration, implementing comprehensive error handling, caching mechanisms, and interactive user workflows that enhanced developer productivity and reduced environment setup time by 60%.
- **Optimized dependency resolution performance** through graph-based algorithms and intelligent caching strategies, enabling real-time compatibility analysis for complex package hierarchies while maintaining sub-second response times for 100+ concurrent dependency checks.
- Validated compatibility across Windows, Linux, and macOS using Docker and virtual environments.

PEOPLE COUNTING SYSTEM USING LOGIC GATES & SENSOR

Sep 2024 - Jan 2025

- Achieved 95% accuracy in crowd measurement by building a hardware-based people counting system with **logic gates and IR sensors**
- Engineered a **dual-direction detection system using IR sensors** that distinguished between entries and exits with 98% precision
- Implemented up/down counters and **BCD encoder (IC 7447)** that processed 100+ transitions per minute with zero system failures

SIMPLE GRID WEB GAME | [\[link\]](#)

Oct 2023 - Jul 2024

- Developed a responsive 4x4 grid web game using HTML, CSS, and JavaScript
- **Reduced load time by 60%** through code optimization and efficient DOM manipulation, resulting in 25% decrease in bounce rate
- Designed intuitive game mechanics that **improved average session time by 2 minutes**
- Implemented responsive design elements that increased **mobile user retention by 45%**

DISEASE DETECTION IN APPLE PLANT USING AI

Nov 2023 - Jan 2024

- Achieved **94% accuracy** on a trained AI model that **identifies 5 different classes of apple plant diseases** from leaf images
- *Reduced diagnosis time from hours to seconds by implementing an efficient image recognition algorithm that processes 50+ images pm.*
- *Collaborated with 5 team members over 4 months to collect and process 1,200+ leaf images, improving dataset diversity by 35%*
- Optimized the model to reduce false positives by 27%, significantly improving reliability for agricultural applications

LEADERSHIP EXPERIENCE

EDU4U CLUB

Co-Lead Technical Team

Aug 2024 - Aug 2025

- **Ensured 99.7% system uptime** across 3 major events by implementing systematic code review processes and automated testing protocols that prevented critical failures.
- Mentored 4 junior technical team members through hands-on training sessions, resulting in a 35% improvement in their skills and enabling them to independently manage critical technical components at subsequent events

SKILLS & CERTIFICATIONS

PROGRAMMING: Python, JavaScript, Java, HTML5/CSS3, PostgreSQL, NoSQL, MongoDB

TOOLS/APPLICATIONS: Figma, Latex, Blender, Insonmia, Git, AutoCAD, Postman, RestAssured

ACHIEVEMENT: Hack for India Hackathon Winner | *HackerEarth & aiXplain, Jan 2025*

- Build an multimedia application for women safety and secured a 1st Place Overall & Women Safety Theme Winner (6,382 participants) [\[link\]](#)

EDUCATION

VIT-Bhopal University

Bachelor of Technology in Computer Science and Engineering

Bhopal, Madhya Pradesh

Graduation Date: Jun 2025