

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

- **Engineered robust CLI application** 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.
- **Implemented comprehensive testing infrastructure** with isolated environment simulation using Docker and virtual environments, establishing automated validation pipelines that ensured enterprise-grade reliability across diverse Python ecosystem configurations.

PEOPLE COUNTING SYSTEM USING LOGIC GATES & SENSOR

Feb 2024 - Apr 2025

- Achieved 95% accuracy in crowd measurement by designing a 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 | [\[link\]](#)

Jul 2022 - Oct 2022

- Created a 4x4 grid web game that **increased user engagement by 40%** compared to previous projects
- **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%**

LEADERSHIP EXPERIENCE

EDU4U CLUB

Co-Lead Technical Team

Aug 2024 - Present

- **Delivered 99.7% system uptime** across 3 major events by implementing systematic code review processes and comprehensive 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

TOOLS/APPLICATIONS: Figma, Latex, VS code, Blender, Insonmia, Git, AutoCAD

CERTIFICATIONS: NPTEL Marketing Analytics Certification, NPTEL Cloud Computing Certification, Coursera The Bits and Bytes of Computer Networking Certification

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