

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 excited to contribute to creating reliable, high-quality software through automated testing and comprehensive quality assurance. Eager to apply my programming foundation and analytical mindset to build robust test frameworks that ensure exceptional user experiences. Using high-value skills to merge the Field of Test Automation and Software Quality with Computer Science.

PROJECT EXPERIENCE

Python Library Compatibility Manager

Apr 2025 - Jun 2025

- Reduced developer environment **setup time by 60%** by engineering a **robust CLI tool** that automated dependency validation using the **RESTful PyPI API**.
- Achieved **95% test coverage across 50+ Python libraries**, Automated cross-platform testing (Windows, Linux, macOS).
- Ensured enterprise-grade reliability across diverse system configurations by architecting an automated validation pipeline using **Docker and virtual environments**.

Hack for India Hackathon: 1st Place

Mar 2025 - Apr 2025

- Secured 1st place out of 6,382 participants by leading the design, development, and deployment of a multimedia application for women's safety.
- Delivered a fully functional prototype from concept within 48 hours by leading rapid development cycles and fostering collaborative problem-solving.
- Developed an award-winning solution, recognized as both overall winner and best in theme, by applying rigorous analytical skills to define application requirements and system logic.

People Counting System | Academic Project

Jan 2025 - Apr 2025

- Achieved 96.4% 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, SQL (MySQL, PostgreSQL), NoSQL (MongoDB)

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

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

Bhopal, Madhya Pradesh

