# Moksh Doshi

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## SUMMARY

Currently pursuing UG at VIT-Bhopal University in Computer Science and Engineering. Seeking opportunities to **build and scale robust backend systems** that power modern applications. Passionate about the complete product development lifecycle, from foundational architecture to user experience. Eager to secure a challenging, long-term internship to deliver sustained value.

## PROJECT EXPERIENCE

### AI AGENT FINANCIAL TOOLKIT (MCP Server) | *link*

Tech Stack: Python, asyncio, MCP (Model Context Protocol), JSON Schema, Regex, Pytest

- Engineered asynchronous MCP server enabling LLMs to perform advanced financial document analysis.
- Constructed modular tool suite (analyze_document, extract_terms, risk_assessment) with API-agnostic architecture supporting seamless upgrades from regex to ML-based extractors
- Built high-precision data extraction engine utilizing pattern matching to parse monetary amounts, interest rates, and contractual entities from unstructured documents

### PYTHON LIBRARY COMPATIBILITY MANAGER| *link*

- Created CLI application with PyPI REST API integration, accelerating developer environment setup by 60% based on performance benchmarks
- Implemented topological sorting algorithm on dependency graphs, delivering sub-second compatibility analysis for 100+ concurrent package .
- Verified cross-platform functionality across Windows, Linux, and macOS environments using containerized testing frameworks

### SIMPLE GRID WEB GAME | *[link]*

- Built responsive 4x4 grid browser game using vanilla JavaScript, achieving 60% faster load times through performance optimization
- Crafted engaging user experience increasing average session duration by 2 minutes and mobile retention by 45%
- Enhanced site metrics resulting in 25% bounce rate reduction

### DISEASE DETECTION IN APPLE PLANT USING AI | *[link]*

- Accelerated plant disease diagnosis from hours to seconds through efficient computer vision algorithms processing 50+ images per minute
- Led 5-member team in curating 1,200+ diverse leaf image dataset, expanding sample variety by 35%
- Fine-tuned model accuracy reducing false positive rates by 27% for production agricultural deployment

## 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, HTML5/CSS3, SQL

**TOOLS/APPLICATIONS:** Insonmia, Git, Postman, PyTest, Figma, Latex, PostgreSQL, NoSQL, MongoDB

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

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

## EDUCATION

**VIT-Bhopal University**                                                                          **Bhopal, Madhya Pradesh**

*Bachelor of Technology in Computer Science and Engineering*                          *Graduation Date: Jun 2026*