

# 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, FastAPI, 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.
- 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 (Docker)

### **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, Bash Scripting

**TOOLS/APPLICATIONS:** Insonmia, Git, Postman, PyTest, Figma, Latex, SQLite, PostgreSQL, MongoDB, Docker, Redis, Pydantic, JWT

**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](#)]

**CERTIFICATIONS:** • Oracle OCI Developer Professional, Oracle OCI Data Science Professional

## EDUCATION

### VIT-Bhopal University

Bachelor of Technology in Computer Science and Engineering

Bhopal, Madhya Pradesh

Graduation Date: Jun 2026