

Moksh Doshi

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Technical Skills

Languages: Python, JavaScript, HTML5/CSS3, SQL, Bash Scripting

Technologies: Docker, Redis, Insonmia, Git Actions, Postman, PyTest, SQLite, PostgreSQL, MongoDB, JWT, latex

Projects

Agentic Financial Toolkit (MCP Server) | MCP, asyncio, FastAPI, Regex, Pytest (GitHub)

- 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 Dependency Comparability Manager | Python, Docker, Postman (GitHub)

- Created CLI application with PyPI REST API integration, accelerating developer environment setup by 60%.
- Verified cross-platform functionality across Windows, Linux, and macOS environments using containerized testing frameworks.

AI-Generated Image Detection System | PyTorch/TensorFlow, ResNet-50, (ipynb)
Grad-CAM, OpenCV, Computer Vision

- Achieved 93% accuracy detecting generated images using ResNet-50 with Grad-CAM explainability on 190K image dataset.
- Implemented Grad-CAM visualization for model explainability, enabling transparent identification of image manipulation artifacts for forensic analysis.

Smart Product Pricing Prediction System | Scikit-learn, Pandas, NumPy, NLP, (GitHub)
Image Processing, Feature Engineering

- Developed ML pricing model for 75K+ e-commerce products using text and image features.
- Designed and optimized pricing model evaluated on SMAPE metric (Score:48.4), handling complex relationships between product attributes, brands, and specifications

Leadership Experience

Co-Lead Technical Team, EDU4U CLUB 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.

Achievements & Extra Curricular Activities

- 1st Place winner HackForIndia Hackathon by AiXplain & hackerearth, May 2025.
- Top 10% in Amazon ML challenge 2025.
- **Certification:** OCI Developer Professional, OCI Data Science Professional - Oracle, 2025

Education

Vellore Institute of Technology, B-Tech in Computer Science and Engineering

Sept 2022 – Sept 2026