

Rahul Kumar

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SUMMARY

Full-Stack AI Engineer skilled in ML (PyTorch), backend APIs (FastAPI), and frontend apps (React/Next.js) with experience in Docker, Linux, and cloud deployment. Passionate about MLOps, scalable AI systems, and building end-to-end impactful solutions.

TECHNICAL SKILLS

- **Programming:** Python, JavaScript, HTML/CSS
- **Frameworks:** PyTorch, FastAPI, React, Next.js
- **Tools:** Docker, Git, Linux, Scikit-learn, NumPy, Pandas, OpenCV

PROJECTS

- **Skin Disease Classifier with Explainable AI** Oct 2024 – Present
Deep Learning & Full-Stack Deployment Python, PyTorch, FastAPI, React/Next.js, Docker, Modal
 - Achieved **0.97+ ROC-AUC** using a fine-tuned ResNet50 CNN model.
 - Integrated Grad-CAM for clinical explainability and visual heatmaps.
 - Deployed GPU-powered backend on Modal with FastAPI REST endpoints.
 - Implemented auto-generated PDF diagnostic reports with model predictions.
 - Built a responsive Next.js UI for real-time inference and image processing.
 - **Live:** skin-disease-classifier-lemon.vercel.app
- **Secure URL Shortener Service** Jul 2024 – Oct 2024
Microservices + DevOps Project Node.js, Redis, Docker Compose, Traefik, PostgreSQL
 - Implemented scalable URL shortening backend with analytics tracking.
 - Optimized performance using Redis caching for frequently accessed links.
 - Configured Traefik reverse proxy enabling SSL and secure routing.
 - Containerized services for modular deployment using Docker Compose.
 - Stored long-term link metadata in PostgreSQL with click stats support.
 - **Live:** shortify-omega-mocha.vercel.app

EDUCATION

- **Amity University Jharkhand** Ranchi, JH
Master of Computer Applications Sept 2024 – Sept 2026
- **Gossner College Ranchi** Ranchi, JH
Bachelor of Information Technology Oct 2020 – May 2023

CERTIFICATIONS

- 100 Days of Code - Python
- The Complete JavaScript Course