

Nirmal Rajkumar

AI & Data Science Student | Startup Builder | AI Systems & Process Automation
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EDUCATION

- Manipal University Jaipur** Jaipur, India
Bachelor of Technology – Data Science — GPA: 8.12 July 2023 – June 2027
Relevant Coursework: Operating Systems, Data Structures, Algorithms, Machine Learning, Deep Learning, Generative AI, Database Management Systems.

SKILLS

- Programming:** Python, SQL, JavaScript, TypeScript, Java, C++, Bash
- AI & Automation:** ChatGPT, Gemini, YOLOv11, OpenCV, TensorFlow, ResNet50, Intel OpenVINO
- Systems & Development:** React, Next.js, Node.js, Express, Flask, MongoDB, Supabase, Docker, AWS, GCP
- Business & Operations:** Process Automation, Workflow Design, Technical Writing, Leadership, Public Speaking, Project Mentorship

EXPERIENCE

- Insolare Pvt Ltd** Remote
Full Stack & Computer Vision Intern May 2025 – Dec 2025
 - Operational Automation:** Developed an AI-powered workplace safety platform that automated PPE compliance auditing and centralized operational monitoring using computer vision.
 - Scalable Architecture:** Designed a modular React, Node.js and Flask architecture separating AI inference from business workflows for reliable enterprise deployment.
 - Business Intelligence:** Integrated MongoDB and Supabase to centralize operational data, authentication and reporting infrastructure supporting enterprise decision making.
- KODO Shared Learning** Incubated at AIC
Co-Founder / Lead Developer July 2025 – Present
 - Product Ownership:** Leading product strategy, architecture and technical execution of an incubated peer-to-peer learning platform focused on structured knowledge exchange.
 - Systems Thinking:** Designed scalable platform modules enabling collaboration across multiple academic domains while supporting long-term platform growth.
 - User-Centric Development:** Translated user feedback into product improvements by identifying workflow bottlenecks and prioritizing scalable feature development.
- Software Development Centre – MUJ** Jaipur, India
Full Stack Developer May 2024 – March 2025
 - Process Automation:** Built university-wide administrative systems that digitized approval workflows and reduced repetitive manual processing across departments.
 - Workflow Engineering:** Implemented secure authentication, multi-role access control and workflow logic supporting complex institutional operations.
 - Operational Efficiency:** Developed backend automation that standardized approval pipelines and improved administrative consistency across university applications.

SELECTED PROJECTS

- Safety Monitoring System:** Developed an AI-powered operational monitoring platform automating PPE compliance audits, employee tracking and centralized reporting through real-time dashboards. *Tech: Next.js, Flask, Supabase.*
- Leave Management System:** Built a university-wide workflow automation platform digitizing leave approvals, backend validation and administrative tracking across multiple departments. *Tech: Next.js, Node.js, Express.*
- BuildIt Card Generator:** Automated onboarding for 100+ students through dynamic identity card generation, eliminating repetitive administrative work while improving operational efficiency.

PUBLICATION

- Research Chapter:** "A Comprehensive Framework for Anonymizing Structured Health Data" published in *Artificial Intelligence for Cyber Security and Industry 4.0*, Routledge, 2024.

LEADERSHIP & AWARDS

- **President, BuildIt MUJ:** Leading a 100+ member technical community, mentoring 20+ software projects and establishing execution processes across AI and Full Stack initiatives.
- **Executive Technical Lead, Oneiros MUJ:** Coordinated development of high-traffic festival platforms while collaborating across technical and organizational stakeholders.
- **ACM Elicit '24 & '25:** Back-to-back First Place Winner at ACM's flagship technical symposium for innovative software engineering solutions.
- **Student Excellence Award:** Recognized by Manipal University Jaipur for outstanding contributions to the university's software ecosystem and student technology initiatives.