

Manoj Kumar V

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Education

Atria Institute of Technology

Bengaluru, India

B.E. in Artificial Intelligence & Machine Learning — CGPA: 9.78/10

Expected 2028

Relevant Coursework: Data Structures & Algorithms • OOP • DBMS • Operating Systems • Computer Networks • Analysis and Design of Algorithms • Discrete Mathematics

Technical Skills

Languages: Python, JavaScript, Java, C, SQL

Frontend: React, HTML, CSS, Tailwind CSS

Backend & Databases: Node.js, Express.js, REST APIs, MongoDB, MySQL

AI / GenAI: Gemini API, LangChain, LangGraph, RAG, Tesseract OCR

Tools: Git, GitHub, Docker, Firebase, Render

Projects

Rakshak AI — AI Crisis-Response Prototype | [GitHub](#) | [Live Demo](#)

- Built a LangGraph + Gemini agent workflow that classifies incidents and proposes response actions, with workflow state surfaced through a React command dashboard.
- Implemented a human-in-the-loop approval gate before Twilio SMS dispatch; integrated Overpass/OpenStreetMap and TomTom APIs for nearby responder discovery.
- Developed FastAPI AI microservice with Express.js gateway serving a Vite + React Flow frontend; deployed prototype on Render and Firebase.

Exam Slayer V2 — AI Exam-Preparation Platform | [GitHub](#) | [Live Demo](#)

- Built a document pipeline that extracts text from scanned question papers with Tesseract OCR and segments questions using regex plus Gemini-assisted parsing.
- Implemented TF-IDF RAG grounding generated answers in uploaded notes with inline citations; added batched Gemini orchestration to handle context and rate limits.
- Generated print-ready answered booklets with WeasyPrint and Paged CSS; containerized with Docker and deployed on Hugging Face Spaces.

Journey — Full-Stack Rental Marketplace (MEN) | [GitHub](#) | [Live Demo](#)

- Developed an Airbnb-style marketplace with listings CRUD, owner-only authorization, reviews/ratings, and session-based auth using Passport.js and Express routing.
- Modeled data with MongoDB/Mongoose, added Joi validation, Multer + Cloudinary image uploads, and Geoapify geocoding rendered with Leaflet/MapLibre maps.
- Deployed on Render with MongoDB Atlas using MVC structure, EJS views, and persistent sessions with flash messaging.

Achievements

First Place | *AI Game Development Hackathon (Vigyaanrang), Atria Institute of Technology*

2025

- Designed and built a playable AI-based game prototype under time constraints; won first place at the institute-level hackathon.

Team Leader, Neural Edge | *Google Solution Challenge 2026 — Submitted Rakshak AI* | [\[Certificate\]](#)

2026

- Led development and successful submission of Rakshak AI crisis-response prototype; coordinated Full-Stack, AI-agent, and deployment work.

AI Agents Course | *Kaggle / Google* | [\[Credential\]](#)

2026

- Completed the AI Agents course covering agent workflows, tool use, and deployment concepts.