

RANA TALUKDAR

 GitHub Portfolio +91 8822952024  LinkedIn  kafirana1507@gmail.com

Career Summary

Building ML and full-stack projects since 2024 with an in-depth understanding of ML-algorithms, GenAI, Neural Networks and MERN. Built multiple ML-models, Computer Vision projects, AI Agents and full-stack projects. ML intern at BlockseBlock. Currently looking for a Full Stack Developer / ML Engineer role.

Skills & Interests

Skills: ML, LLM, NLP, LangChain, Computer Vision, RAG, NextJS, MERN, SQL, AWS, Docker.

Soft Skills: Improviser, Leadership.

Interests: Sci-Fi content, Fin-Tech, Cricket, Travelling.

Projects

MailVoyager | LLM x Full Stack x Automation

July 2025 – July 2025

- Developed advanced automation system for sending emails.
- Integrated backend using FastAPI.
- Fully functional automation system that opens Chrome logs into Gmail account and sends emails based on user requirements.
- No API used, all parts of the automation are coded.

ChatFom | Full-Stack Developer

May 2025 – Present

- Developed advanced chatting platform using MERN.
- Integrated VC and audio calling using API calls.
- Used JWT for authentication.
- Integrated feature for cross-country team members, improving cross-cultural communication skills.

ISRONautsAI | ML Engineer

June 2023 – July 2024

- Developed a cloud motion prediction model using INSTAT data.
- Fused CNN with diffusion model.
- Added encoder and decoder for enhancing model performance.
- Deployed in Hugging Face with proper working backend.

Floor-Planning GenAI | ML Engineer

Sept 2024 – March 2025

- Developed a generative AI model for floor planning.
- Used diffusion models fused with ControlNET for image enhancement.
- Leveraged Flask and Ngrok to deploy the model.
- Used augmented data due to lack of data online.

Publications

A State-of-Art Survey on Generative AI Techniques for Floor Planning

Sept 2024 – May 2025

Workshop: GenAICHI 2025 – Generative AI and Human-Computer Interaction

VIT Bhopal University

Conference: CHI 2025 – ACM Conference on Human Factors in Computing Systems

Education

Vellore Institue of Technology

Sept 2023 – Ongoing

B.Tech in Computer Science and Engineering (AIML)

Bhopal, India

- 8.33 CGPA, AIML, Web Development, Team Work.

Extracurriculars

- Spearheaded and judged a university-wide hackathon, and mentored over 200 participants as a workshop speaker.
- Co-lead in two key clubs, driving initiatives in both the technical and R&D departments.