

# KAUSTHUBH J. RAO

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## OBJECTIVE

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Seeking AI Developer or Full Stack Developer roles to leverage my skills in Machine Learning, and modern web technologies.

## EDUCATION

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**B.E. in Artificial Intelligence and Machine Learning**, NMAMIT, Nitte 2021 – 2025

**Relevant Coursework:** Machine Learning, Deep Learning, NLP, Data Structures **CGPA:** 9.41 / 10

**Pre-University (Computer Science)**, Canara PU College, Mangalore 2019 – 2020

## SKILLS

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<b>Languages</b>	Python, JavaScript, Go
<b>Web Development</b>	SvelteKit, Node.js, React, Next.js, Tailwind CSS, Firebase, PostgreSQL
<b>AI/ML Frameworks</b>	PyTorch, LangChain, LangGraph, Gradio, ONNX backend
<b>Tools</b>	Git, GitHub, Docker
<b>Soft Skills</b>	Leadership, Communication

## WORK EXPERIENCE

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**AI Development Intern**, Edgeverve Systems, Bangalore Feb 2025 – Jul 2025

- Developed AI-driven systems and backend APIs to enhance banking operations and efficiency.
- Contributed to a large-scale rewrite of core product features in collaboration with cross-functional engineering teams.

**Content Developer Intern (AI & ML)**, Cantilever Labs, Remote Nov 2021 – Mar 2022

- Created AI/ML content that reached 1,000+ learners across various platforms.
- Conducted research on core AI topics to design educational modules and quizzes.

## PROJECTS

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**X-Cortex: Automated Interaction Engine** Built an LLM-powered interaction engine using LangChain and PyTorch. Developed a Playwright-based WhatsApp automation library for multi-agent communication.

**LLM Optimization and Research** Led research on optimizing and distributing large language models. Designed a custom weight-pruning method using Genetic Algorithms to reduce model size and inference cost. [More Info](#)

**TASC Website** Created the official site for TASC, a student-led tech org. Used SvelteKit, Tailwind CSS, and Firebase for end-to-end functionality. ([Try it here](#))

**Incridea Website** Contributed to NMAMIT's annual tech fest website. Worked on responsive front-end components using React and Next.js. ([Try it here](#))

## LEADERSHIP & EXTRACURRICULAR

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- **Joint Technical Lead, TASC, NMAMIT (2023–2024)** Led 5+ tech events including Smart Nitte Hackathon (500+ participants); raised INR 50,000 in sponsorships.
- **1st Place (logistics domain), Hackfest Hackathon, FLC (EGDK India), 2024**
- **Runner-Up, HackIoFuture Hackathon, SJEC, 2024**
- **Rakuten Conference, 2024** Invited by Rakuten to present X-Cortex to 1,000+ attendees.
- **Participant, Google Developer Fest, Niveus Solutions, 2023** Engaged with developer community in Mangalore; explored emerging tech trends.