

ROHAN N KARADIGUDD

AI&ML Enthusiast | Open-Source Contributor
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Pre-final year CSE (AI&ML) student at MS Ramaiah Institute of Technology (CGPA 8.96) who enjoys building practical AI and software products. Built AI-powered tools, full-stack applications, and ML solutions through internships, projects, and open-source contributions, with experience across backend development, machine learning, and developer tooling.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C
AI & ML: TensorFlow, Scikit-learn, NLP, Pandas, NumPy, Machine Learning, RAG
Web / Backend: React, Fast API, REST APIs, HTML, CSS, MERN Stack
Databases: MongoDB, MySQL, Supabase
Cloud & DevOps: AWS, Git, GitHub, Postman, Jupyter Notebook, Google Colab
Concepts: Data Structures & Algorithms, OOP's, DBMS, Distributed Systems

EXPERIENCE

Machine Learning Intern — FlyRankAI, Bengaluru, India | July 2026 – September 2026

- Built an AI-powered Content Intelligence pipeline using Python, NLP, embeddings, and clustering to identify outdated website content and prioritize pages for SEO refresh based on content quality and semantic similarity.
- Developed and evaluated RAG-based content optimization workflows with LLMs, generating evidence-backed content refresh recommendations and actionable insights for improving search visibility and content performance.

Web Development Intern — Apex Planet Software, Bengaluru, India | Jan 2026 – Mar 2026

- Delivered 3+ responsive web applications using HTML, CSS, and JavaScript; implemented Glass Morphism UI patterns, cutting design iteration time by ~30%.
- Integrated 5+ third-party REST APIs with local-storage caching, reducing redundant network requests by ~40% and improving perceived load speed.

Open-Source Contributor — GSSoC (GirlScript Summer of Code) 2025

- Actively contributed to real-world open-source repositories under GSSoC 2025; improved code quality, fixed bugs, and collaborated async with global maintainers via pull requests and code reviews.

PROJECTS

SEO Content Optimizer, Stack: Python · FastAPI · LangChain · ChromaDB · React · MLOps · RAG

- Built an enterprise AI content intelligence platform during FlyRank AI Internship using RAG, LangChain, ChromaDB, and FastAPI for context-aware document retrieval and generation.
- Developed ML pipelines for Content Refresh Score prediction and an SEO Analysis AI Agent over a 30K+ row dataset, with modular MLOps workflows for scalable deployment.

AI-Powered Technical Debt Analyzer, Stack: React · Fast API · AWS Bedrock · Gemini Flash 2.5

- Built a VS Code extension that uses LLMs (AWS Bedrock + Gemini Flash) to quantify technical debt as estimated business cost, enabling data-driven engineering prioritisation.
- Implemented one-click AI refactoring suggestions via Fast API backend, bridging communication between engineering and non-technical business stakeholders.

Full-Stack Backend Ecosystem, Stack: Fast API · MongoDB · JWT Auth · REST APIs

- Architected a modular backend supporting user authentication (JWT), payments, bookings, notifications, and subscription management — designed for horizontal scalability.
- Reduced API response latency by structuring MongoDB collections with compound indexes and query optimisation best practices.

ML Spam / Ham Email Classifier, Stack: Python · Scikit-learn · NLP · Corpus Dataset

- Engineered a text classification pipeline (TF-IDF + Naive Bayes / SVM) on a labelled corpus; achieved >97% accuracy through systematic feature engineering and cross-validation.

EDUCATION

B.E. Computer Science & Engineering (AI & ML) — MS Ramaiah Institute of Technology 2024 – 2028 | CGPA: 8.96

CERTIFICATIONS

AWS — Fundamentals of Artificial Intelligence and Machine Learning **Udemy** — Data Science and Machine Learning with Python
Sololearn — Python Developer **Hacker Rank** — Python Basics

ACTIVITIES & LEADERSHIP

Google Gemini Campus Ambassador, Google | 2026

- Selected as an official Google Gemini Campus Ambassador; promoting Google AI tools and Gemini API adoption among student developers at MS Ramaiah Institute of Technology.