

# ROHAN N KARADIGUDD

AI&ML Enthusiast | Open-Source Contributor

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Pre-final year CS (AI/ML) student at MS Ramaiah Institute of Technology (CGPA 9.11) with hands-on industry experience building AI-powered developer tools, full-stack systems, and machine learning pipelines. GSSoC 2025 open-source contributor. Targeting AI/ML and software engineering internships at high-impact organisations.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C

**AI / ML:** TensorFlow, Scikit-learn, NLP, Pandas, NumPy, Machine Learning

**Web / Backend:** React, Fast API, REST APIs, HTML, CSS, MERN Stack

**Databases:** MongoDB, MySQL

**Cloud & DevOps:** AWS Bedrock, Git, GitHub, Postman, Jupyter Notebook, GoogleColab

**Concepts:** Data Structures & Algorithms, OOP, DBMS.

## EXPERIENCE

### 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.

## PROJECTS

### 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.

### Gemini AI Conversational Chatbot

Stack: Gemini API · React · JavaScript

- Developed a context-aware chatbot retaining multi-turn conversation state, with streaming responses via the Gemini API for real-time UX.

## OPEN SOURCE

### Open Source Contributor — GSSoC (Google 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.

## EDUCATION

**B.E. Computer Science & Engineering (AI/ML) — MS Ramaiah Institute of Technology**

**Class XII — ICS Mahesh PU College, Dharwad (Karnataka State Boards)**

**Class X — KLE School, Rayapur, Dharwad (CBSE)**

2024 – 2028 | CGPA: 9.11

2023 | 88.67%

2021 | 76.5%

## CERTIFICATIONS

- AWS — Fundamentals of Artificial Intelligence and Machine Learning
- Udemy — Data Science and Machine Learning with Python
- Solo learn — 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.

### Member — Google Developer Group (GDG) Bengaluru

Google Developer Groups | 2026

- Active member of GDG Bengaluru; attending tech talks, workshops, and hackathons focused on Google Cloud, AI/ML, and modern development ecosystems.