

Rishab Rachakonda

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EDUCATION

University of Southern California

Master of Science: ECE Machine Learning and Data Science

California, USA

Aug 2026 - Current

Chaitanya Bharathi Institute of Technology

Bachelor of Engineering: Electronics and Communication Engineering

Thesis: Design and Analysis of Gray to Binary Code Converter using QCA Technology

Hyderabad, India

Dec 2021-May 2025

SKILLS

Programming & Backend: Python, C++, Dart, RESTful APIs, Microservices, Authentication (JWT)

Frameworks & Tools: FastAPI, Flutter, LangChain, LlamaIndex, Hugging Face Transformers, Dify, n8n, Git, Linux

AI/ML: PyTorch, TensorFlow, Scikit-learn, RAG Pipelines, LLM Fine-tuning, Prompt Engineering, Vector Databases (Pinecone, ChromaDB)

Databases: PostgreSQL, MongoDB, Schema Design

Devops & Cloud: Docker, Docker Compose, CI/CD, Jenkins, GitHub Actions, AWS, GCP, Nginx

Practices: Version Control, Agile (Scrum, Sprint Planning, Cross-functional Collaboration, Kanban)

PROFESSIONAL EXPERIENCE

Dvimedha, Machine Learning Engineer, Feb 2026 – August 2026

Hyderabad, India

- Built and deployed LLM-powered agents and RAG pipelines to automate enterprise workflows, enabling context-aware document retrieval and multi-step reasoning across structured and unstructured data sources.
- Contributing to the development of **Dvimedha-Persona**, a real-time Speech-to-Speech AI model engineered for Indic languages, working on model integration, latency optimization, and conversational flow design.
- Designed and orchestrated AI workflow tools using **Dify** and **Lovable**, including **iVivid X-View**, a multi-persona executive decision intelligence platform targeting C-suite users.

Techineur Solutions Pvt Ltd, Backend Development Intern, Sept 2024 - March 2025

Hyderabad, India

- Built scalable REST APIs using FastAPI, improving backend response times and reliability.
- Applied automated test workflows and CI/CD pipelines, achieving high code coverage and reducing deployment issues.
- Improved cross-platform Flutter features integrating APIs and multi-tenant cloud infrastructure.

PROJECTS

IaC Pre-Deployment Cost Estimator- Python, Terraform, AWS Pricing API

- Built a Python library that parses Terraform and AWS CDK plans to estimate infrastructure cost before deployment, resolving resource graphs to AWS Pricing API SKUs across regions and instance families.
- Designed a pluggable provider interface and a diff mode that surfaces cost deltas between plan states, enabling cost gating inside CI/CD pipelines.
- Addressed a gap in the Python ecosystem, where existing pre-deployment cost tooling is Go-based and not importable as a library.

Code History- Python, Git internals, LLM

- Built a CLI that explains why any line of code exists by mining git history — traversing blame across renames and refactors to reconstruct the commit chain, PR context, and issue trail behind a line.
- Combined deterministic git graph traversal with LLM summarization so explanations are grounded in retrieved commits rather than generated from scratch.
- Packaged as a single-command developer tool with caching to keep repeat queries fast on large