

# Kalidhindi Arya Varmma

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## CAREER OBJECTIVE

Computer Science undergraduate with hands-on experience building AI-powered systems, RAG pipelines, and cloud-native applications. Seeking a role to engineer scalable, production-grade software while contributing to innovative, high-impact projects in a collaborative environment.

## EDUCATION

**B.Tech in Computer Science & Engineering** VNRVJIET, JNTUH 2023 – 2027 | GPA: 9.35 (6th Sem, Pursuing)

**Intermediate — MPC** Sri Chaitanya Jr. College, TGBIE 2021 – 2023 | 98.7%

**Class X** MDAV Public School, CBSE 2020 – 2021 | 10.0 CGPA

## TECHNICAL SKILLS

<b>Languages</b>	Python · Java · C++ · JavaScript · Go · SQL
<b>Frameworks</b>	FastAPI · Flask · React.js · Next.js · PyTorch · Pandas · NumPy · LangChain
<b>Databases</b>	PostgreSQL · MongoDB · Redis · AWS RDS · FAISS · Pinecone
<b>Cloud &amp; DevOps</b>	AWS (S3, EC2, Glue, RDS, Lambda) · Docker · Terraform · GitHub Actions · CI/CD
<b>Data Engineering</b>	Apache Spark · Apache Airflow · Kafka · ETL Pipelines · Data Warehousing · AWS Glue
<b>AI / ML</b>	RAG Pipelines · LLM Integration · Embeddings · Vector Search · Fine-tuning · Prompt Engineering
<b>Concepts</b>	REST APIs · Distributed Systems · OOP · Agile · Linux · Software Design Patterns

## CERTIFICATIONS

- DeepLearning.AI — Machine Learning Specialisation (Coursera)
- DeepLearning.AI — Data Engineering Professional (Coursera)
- DeepLearning.AI — PyTorch Specialisation (Coursera)
- Google UX Design Professional Certificate (Coursera)

## PROJECTS

### NoteQuest — AI Reading Tracker

[Next.js](#) · [FastAPI](#) · [PostgreSQL](#) · [FAISS](#) · [RAG](#) · [AWS S3](#) · [OpenAI Embeddings](#)

- Built a full-stack reading assistant with an end-to-end RAG pipeline — document chunking, embedding generation, and cosine similarity search — enabling semantic retrieval across books of 500+ pages.
- Developed secured REST APIs for cloud-based document ingestion via AWS S3, supporting 5+ file formats, and integrated adaptive quizzes, chatbot interaction, flashcards, and chapter progress tracking.
- Designed a knowledge-graph visualization for concept recall and automated LLM-generated chapter summaries, cutting average review time by ~60% in user testing.

### CodePolice — AI Developer Alignment & Analytics

[Python](#) · [Git API](#) · [VS Code Extension API](#) · [FAISS](#) · [Local LLMs \(Ollama\)](#) · [FastAPI](#)

- Engineered a developer analytics system that parses git diff output, generates semantic embeddings per change, and indexes them across 100+ commits for architecture-level drift detection before code review.
- Built automated RAG-based pipelines to summarize evolving project structure and produce architecture diagrams directly from repository history, reducing manual documentation overhead.
- Designed a real-time monitoring dashboard surfacing task-alignment deviations and anomalous commit patterns across 3+ active repositories, enabling proactive intervention in development workflows.

## PROJECTS (continued)

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### PRAGYA — Governance-Grade Enterprise RAG System

Python · FastAPI · Hybrid Retrieval · FAISS · PostgreSQL · Redis · TypeScript

- Built a citation-first RAG system for Company Law using hybrid semantic + keyword retrieval with authority-based filtering, ensuring compliance-ready responses across a corpus of 200+ legal documents.
- Implemented SME-validated ingestion workflows with amendment tracking and audit logging, achieving traceable provenance for 100% of retrieved answers.
- Optimized retrieval latency with Redis-based caching and query rewriting, reducing average response time by ~40% and improving relevance scores on internal benchmarks.

### Methane Emission Tracking & Forecasting System

Python · GDAL · AWS S3 · EC2 · Docker · Tiler API · Leaflet.js · GeoPandas

- Processed 50+ high-resolution satellite .tif raster files into Cloud-Optimized GeoTIFFs (COGs) using GDAL, stored in AWS S3, reducing tile load time by over 50% compared to raw raster serving.
- Deployed a Tiler Docker container on EC2 serving geospatial map tiles for 30+ Indian mine sites, with an API-driven viewer for side-by-side methane intensity comparison and proximity-based alerting.
- Integrated time-series forecasting on historical emission data to project future methane levels, powering early-warning notifications for regulatory threshold breaches.

## EXPERIENCE

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### AI Engineer Intern — IM India Pvt. Ltd.

Jan 2026 – Mar 2026

- Engineered an AI-powered legal research platform for Company Law using RAG architecture with hybrid semantic search, enabling contextual document retrieval with source attribution.
- Built a full-stack legal tech application (Next.js, TypeScript, FastAPI, PostgreSQL, Ollama) with document chunking, embedding generation, query rewriting, and Redis-based ingestion tracking.

### Developer Intern — RevGain.ai

Jun 2025 – Jul 2025

- Worked on production dashboard features including filter optimization and low-code analytics using RgStudio (Next.js, FastAPI).
- Explored Wingman's AI engine for intent-based business insights, gaining exposure to customer lifecycle analytics, data integration, and cross-team workflows.

## ACHIEVEMENTS

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### Academic

- 1st Place — VNRVJIET Design-a-thon 2025 (Cybersecurity domain)
- 1st Place — VNRVJIET Designathon 2026 (Gender Diversity domain)
- 1st Place — Webathon 3.0 (April 05–06, 2025)
- 1st Place — Webathon 4.0 (February 21, 2026)

### Co-Curricular

- Participated in VNRVJIET Convergence – Technical Fest in 2023, 2024 and 2025
- Participated in Convergence 24-Hour Hackathon (November 2025)
- Attended Art of Living YES+ Program

### Extra-Curricular

- Member of NSS, VNRVJIET — participated in Blood Donation Camp
- Member of Stentorian, the English Literary Club of VNRVJIET
- Member of Art of Living Foundation

## STRENGTHS & HOBBIES

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**Strengths** Analytical Thinking · Adaptability · Problem-Solving · Communication Skills · Teamwork

**Hobbies** Running · Table Tennis · Reading latest articles · Meditation · Swimming