

# KRISHNA GUNDIMEDA

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Frontend and AI Engineer with experience building production-grade web applications and intelligent systems, with a strong foundation in Data Structures and Algorithms.

## EDUCATION

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<b>Bachelor of Technology in Computer Science</b> , Vellore Institute of Technology, Vellore	2020 - 2024
GPA: 8.16 / 10	

## SKILLS

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<b>Frontend</b>	JavaScript (ES6+), React, AngularJS, StencilJS, HTML, CSS, Tailwind CSS
<b>AI / ML</b>	Python, Vertex AI, RAG/CAG, MCP, Google ADK, LLM Tool Use
<b>Backend</b>	Node.js, Python, SQL, REST APIs, ETL Pipelines, Pandas
<b>Tools</b>	Git, VS Code, Jupyter, GCP, Jaspersoft, Figma

## EXPERIENCE

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<b>Frontend &amp; AI Engineer @ Broadcom</b> Futurist Global	Sep 2024 - Present Hyderabad, India
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- Enabled intelligent querying and summarization across 500K+ enterprise records by shipping MCP-based services for Broadcom's ICE and Clarity products.
- Accelerated migration of the front-end codebase primarily written in Angular 1.x to Stencil JS, a web component based framework by converting 16+ reusable components and workflows.
- Improved data retrieval accuracy and reduced stakeholder turnaround time by implementing internal AI tools powered by Vertex AI, RAG pipelines, and A2A architectures for automated report generation and contextual insights.

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<b>STEM Intern @ Goldman Sachs</b> Goldman Sachs	Jan 2024 - Jun 2024 Bangalore, India
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- Built Python-based data analysis and ETL workflows for middle-office CD operations.
- Automated reporting pipelines, saving over 195+ hours per day across internal teams.
- Worked with large datasets and internal tooling to improve reliability and turnaround time of analytics jobs.

## PROJECTS

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<b>Reportly for Clarity PPM</b>	<i>RAG, Google ADK, Vertex AI, Python, React</i>
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- Project won Broadcom's ValueOps AI Hackathon.
- Built an AI-powered reporting tool that automates Jaspersoft report generation using agent-based workflows.
- Uses intelligent agents to understand user queries, retrieve relevant enterprise data across large datasets, to generate UI of the report dynamically.

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<b>CAG - Cache-Augmented Generation</b>	<i>Python, Vertex AI, Embeddings</i>
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- Built a lightweight alternative to RAG that grounds LLM responses using custom documentation with semantic chunking and vector embeddings via text-embedding-005.
- Features cosine similarity search for context retrieval, chat history summarization to reduce token costs, and token usage tracking with cost estimation.

## Binary Star System Simulation

*Python, NumPy, Matplotlib, ODE Solvers*

- Project won VIT Vellore's Gravathon 2023. Built a simulation of planetary motion in a binary star system, solving the gravitational three-body problem using numerical methods.
- Implemented Runge-Kutta integration for accurate orbital mechanics, computing stable and chaotic trajectories influenced by two gravitationally bound stars.

## BLOGS

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- [The Case for CAG: Less Retrieval, More Speed](#) - Exploring Cache-Augmented Generation as an alternative to RAG
- [Gemini: Google's Multimodal Moonshot](#) - Technical analysis of Google's Gemini AI model family
- [Llama 2: How Meta Gave Away the Recipe \(Mostly\)](#) - Deep dive into Meta's Llama 2 release and training methodology

## CERTIFICATIONS

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- Machine Learning Specialization - DeepLearning.AI & Stanford University (Andrew Ng)
- The Web Developer Bootcamp - Udemy
- 100 Days of Code: Python - Udemy
- Google Cloud Skills Boost - Google Cloud

## AWARDS

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- Two-time Broadcom ValueOps AI Hackathon Winner
- Gravathon 2023 - Physics-Based Hackathon Winner