

# Elluru Sai Rohith

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## SUMMARY

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Enthusiastic and detail-oriented AI and Data Science undergraduate with hands-on experience in machine learning, deep learning, and natural language processing projects. Adept at problem-solving, implementing innovative solutions, and rapidly mastering complex technical concepts.

## EDUCATION

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2023 – present	B.Tech in Artificial Intelligence and Data Science <b>Amrita Vishwa Vidyapeetham, Bengaluru</b>	(CGPA: 8.78)
2021 – 2023	Class 12th at <b>AP Board of intermediate</b>	(96%)
2021	Class 10th at <b>Board of Secondary Education AP</b>	(100%)

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, Java, Scala, Julia, MySQL
<b>Languages and Frameworks</b>	Transformers, Large Language Models (LLMs), Natural Language Processing (NLP), MATLAB
<b>Tools and Technologies</b>	Git, Visual Studio Code, Google Colab, Supabase, Cloudflare
<b>Technical Skills</b>	Machine Learning, Deep Learning, Optimization Algorithms, Model Development, Data Preprocessing

## NOTABLE PROJECTS

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**Aikipedia: AI SaaS Platform** *Mar 2025 – May 2025*

- Developed a full-stack AI SaaS platform with pay-per-use credit system using Supabase and Cloudflare
- Integrated Razorpay API for automated payment workflows and real-time access to AI services
- Achieved reliable system performance with scalable backend and 100% uptime

**Graph-Structured Memory Framework for Conversational AI** *Mar 2025 – May 2025*

- Architected a graph-based persistent memory system using Neo4j for conversational AI with shared long-term memory across LLMs
- Implemented two-tier graph search with PageRank, entropy, and Louvain community detection, achieving 40–60% memory reduction
- Enabled scalable retrieval (100k+ nodes) with improved context relevance and explainability

**Clip2Learn: YouTube Learning Assistant** *Oct 2025 – Dec 2025*

- Designed a scalable Big Data + NLP pipeline using Apache Kafka, Whisper, SentenceTransformers, and FAISS
- Extracted step-level answers from video tutorials with timestamped explanations via RAG-based system
- Built end-to-end pipeline including ingestion, transcription, embedding, and retrieval with Gradio interface

## ACHIEVEMENTS

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**HackRx 6.0 Hackathon** *Aug 2025*

- Ranked among top 30 teams nationally across three competitive rounds
- Built scalable backend for processing PDFs and PPTs with real-time RAG-based querying
- Demonstrated strong system performance under live leaderboard evaluation, leading to internship opportunity