M RANGA VAMSHI KRISHNA

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Education

CMR College of Engineering and Technology	November 2022 – Present
*Bachelor of Technology in Computer Science (AIML)	CGPA 8.10*	*Hyderabad, Telangana*

[**Courses:** Operating system, Database management, Machine learning, Deep learning, OOPS through Java, Artificial intelligence, Data structures, Software engineering, Computer architecture, Algorithms analysis]

Experience

BVIT Solutions	**August 2025 – Present**
AI Intern	*Remote, India*

- Built an AI-powered multi-document scanner using LangChain, **AWS Bedrock** embeddings, and LLMs, enabling chat-based querying of oncology research papers and cancer-related drug documents.
- Developed an automated **RAG** pipeline for parsing, chunking, and vector indexing, improving retrieval accuracy for oncology research and drug information.
- Designing a full-stack **Priest Management System** to enable users to easily schedule and manage ceremony services, while developing backend APIs, database schemas, and dashboards to streamline bookings for both users and priests.

Projects

TatLumen | *React.tsx, TypeScript, LangChain, Groq, CrewAI, Flask, AWS-[EC2, S3, CloudFront, API Gateway]* | *Link*   **June 2025**
- Developed a full-stack **Generative AI** web application for RAG-based Q&A, document summarization and AI-driven content creation using LangChain, **NVIDIA** embeddings and **CrewAI** based AI agent frameworks.
- Leveraged 4+ **AWS services** including **S3**, **CloudFront**, **EC2** and **API Gateway** to enable secure access for 1K+ users and scalable deployment.
- Optimized data flow and real-time performance using **AstraDB** and Supabase, ensuring efficient query handling and responsiveness across 10K+ records.

Lung Cancer Detector | *Python, Tensorflow, CNN, UNET* | *Link*   **April 2025**
- Built a hybrid deep learning model combining **CNN**, **LSTM** and **UNET** for early-stage lung cancer detection and classification with high accuracy on the LIDC-IDRI dataset.
- Designed a **Tkinter**-based GUI for real-time inference and visualization, supported by efficient image preprocessing and segmentation pipeli nes.

JobSphere | *React, Tailwind CSS, JavaScript, Supabase, Clerk, REST API* | *Link*   **February 2025**
- Crafted and deployed a responsive full-stack job portal with real-time listings and 100% role-based access for recruiters & job seekers.
- Implemented robust authentication and session management using **Supabase** and Clerk, enhancing security and protecting user data for 400+ accounts.

PrimeMedic AI | *React.js, Node.js, Python, AstraDB, FFmpeg, groqAPI, Render* | *Link*   **December 2024**
- Engineered a healthcare-focused **virtual first-aid** assistant with visual chat, emergency support and an **AstraDB** backend, built to handle 100+ real-time queries per session.
- Integrated **Meta's LLaMA 3.2** models and deployed on **Render** for scalability, achieving a 23× boost in speed.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, HTML, CSS, SQL

AI/ML Technologies: LangChain, LLMs, OpenAI APIs, HuggingFace, PyTorch, TensorFlow, Scikit-learn, AstraDB

Web Technologies: React.js, TypeScript, Node.js, Flask, Django, Tailwind CSS, Supabase, MySQL

Tools & Cloud Platforms: Git, GitHub, Linux, Jupyter Notebook, **AWS**, Render

Achievements

Secured **1st Place** in **DevNetwork** [AI+ML] Hackathon 2025 (San Francisco, remote), winning $12,500 in prizes.

Achieved a global rank of **5488** in **TCS CodeVita Season 12**, a competitive programming contest organized by TCS.

Finalist of **HackArena** - A National Level 48-hour Hackathon at GuruNanak Institute of Technology.

Ranked Top 5 in a 36-hour Hackathon at **Sidhartha College, Vijayawada**.

Semi-Finalist in **HackTheVerse**, a 24-hour National WebDev Hackathon.