

Akash Chintaluri

GitHub: AkashChintaluri | LinkedIn: akashchintaluri | akashchintaluriofficial@gmail.com | Phone: +91 8830893248

EDUCATION

June 2022 – Present	B.Tech – CSE, SRMIST , Kattankulathur, Chennai	CGPA: 8.65/10
June 2020 – March 2022	Global Public School and Jr. College , Nashik, Maharashtra	Percentage: 75%
June 2019 – March 2020	Wisdom High International School , Nashik, Maharashtra	Percentage: 92%

WORK EXPERIENCE

AI Engineer, Elimai.ai	June 2025 – Present
<ul style="list-style-type: none">– Evaluated and Integrated over 10 LLMs (LLaMA, GPT, DeepSeek) for production workflows, achieving a 25% reduction in inference time.– Applied advanced prompt engineering to design and deploy agentic AI workflows, RAG pipelines, and chatbot automation flows, increasing query accuracy and user response quality by 30%.– Built LLM inference services on Azure AI Foundry and AWS Bedrock, integrated with pgvector for low-latency semantic retrieval.– Created FastAPI-based MLOps pipelines using Docker to automate deployment, versioning, and performance tracking.– Delivered a document automation platform with React/Vite, Node.js, PostgreSQL (AWS RDS), and AWS S3 — including authentication, OCR (Mistral), structured field extraction, and Excel generation.– Collaborated with a 5-member team to manage the end-to-end product lifecycle under Agile practices, contributing to architecture planning, code reviews, and sprint releases while grooming requirements and shaping data/infrastructure choices.	
Developer, Team Rudra	January 2024 – September 2024
<ul style="list-style-type: none">– Enhanced rover navigation precision by 15% through a C++ ARUCO-based localization system built with OpenCV.– Earned 3rd place at the International Rover Challenge 2024 for high-accuracy navigation and control systems.– Improved trajectory control with PID tuning and 3D mapping, reducing path deviation during field runs.– Refactored simulation interfaces using type-erasure classes to align Gazebo simulations with physical rover hardware.	

PROJECTS

ArXiv Research Assistant (Full-Stack RAG System)	September 2025
<ul style="list-style-type: none">– Built a Retrieval-Augmented Generation (RAG) system supporting semantic search across 497+ research papers using React and FastAPI.– Integrated GPT-4 and Sentence Transformers with hybrid retrieval (PostgreSQL + FAISS/Pinecone) for precise context grounding.– Deployed a containerized microservice setup via AWS App Runner and Amplify, ensuring sub-second search latency.	
Multi-Vector Retrieval of Industrial Standards	November 2024 – January 2025
<ul style="list-style-type: none">– Created a Python + PyQt tool for multi-vector retrieval to automate comparison of industrial standards, cutting research time by 40%.– Applied LLM-assisted document comparison for compliance validation across large technical corpora.– Presented the work at L&T Techgium 2025, recognized for applied GenAI in industrial automation.	
QuizSpark	March 2025 – May 2025
<ul style="list-style-type: none">– Developed a web-based quiz system on AWS EC2 with Node.js and Terraform infrastructure scripts.– Set up automated CI/CD pipelines using GitHub Actions and hardened deployment via AWS VPC and Nginx.	
AgroBot	February 2024 – June 2024
<ul style="list-style-type: none">– Designed an ML–IoT rover with CNN-based anomaly detection, achieving 90% accuracy for crop and soil assessment.– Integrated autonomous navigation and mapping to streamline inspection tasks in precision agriculture.– Secured 3rd place at SRM Project Expo 2024 for contributions to smart-farming technology.	

TECHNICAL SKILLS

Languages	Python, JavaScript (Node.js, React, Express), SQL, C++, Java, C, HTML
Cloud & Infrastructure	AWS (EC2, S3, RDS, Bedrock, App Runner, Amplify), Azure AI Foundry, Docker, Terraform
AI/ML	TensorFlow, PyTorch, LangChain, RAG, CNNs, MLOps, Sentence Transformers, PID Control
GenAI & LLMs	OpenAI GPT, LLaMA, DeepSeek, Mistral, Prompt Engineering, Agentic AI, Chatbots
Databases	PostgreSQL, MySQL, pgvector, FAISS, Pinecone
Tools & Utilities	Git, GitHub Actions, AWS CLI, OpenCV, PyQt, REST APIs, Gazebo Simulation, OCR Pipelines, Data Analytics Tools, Nginx, PM2, FastAPI, 3D Mapping
Methodologies	Agile, DevOps

ACHIEVEMENTS

- **3rd Prize, SRM Project Expo 2024** (AgroBot) – March 2024
- **National Finalist, Techgium 2025** (L&T Industrial Standards RAG Platform)