M. AKSHAY CHANDRA

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SUMMARY

B.Tech Computer Science student building toward cloud and AI/ML engineering, with hands-on experience across full-stack development (React, Flask), LLM-integrated applications (LangChain, Gemini API, RAG pipelines), and open-source maintenance. Currently pursuing AWS Solutions Architect Associate certification. Seeking a Software Engineering / Cloud internship.

EDUCATION

Gokaraju Rangaraju Institute of Engineering & Technology *2025 – 2028*
B.Tech in Computer Science and Engineering | CGPA: 8.5 / 10

Teegala Krishna Reddy Engineering College *2022 – 2025*
Diploma in Computer Science | CGPA: 9.04 / 10

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript
Web & Backend: Flask, REST APIs, HTML5, CSS3, React, Tailwind
AI / ML: LangChain, LangGraph, RAG Pipelines, Gemini API, Anthropic API, Google Cloud Video Intelligence API
Tools & Platforms: AWS (VPC, IAM, EC2 — SAA in progress), Git, GitHub, Cloudinary, OpenCV, Agile/Scrum
CS Fundamentals: Data Structures & Algorithms, OOP, DBMS (SQL), Computer Networks (OSI/TCP-IP model, Subnetting/CIDR, Routing), Complexity Analysis

EXPERIENCE

Open Source Contributor & Maintainer — GRIET StudySphere *2025 – Present*

- Shipped a regulation-based question-paper module (GR24 tab switcher, "New" badges) and a CSS-animated marquee banner using React, TypeScript, and Tailwind — merged to production via PR.
- Serve as project maintainer: review and merge pull requests from external contributors to the open-source repository.

Technical Lead — Free Software Wing, GRIET *2025*

- Built and maintained web automation tools that replaced manual spreadsheet-based coordination for college technical events.
- Led a team-based Agile workflow across open-source initiatives, using Git for version control and code review.

PROJECTS

MetaVid — AI-Powered Video Analysis Platform*Flask, OpenCV, FFmpeg, Google Cloud Video Intelligence API, Cloudinary | GitHub*

- Architected 4 independent AI-analysis endpoints (shot-change detection, face detection, logo recognition, object tracking), each running a 5-stage pipeline: upload, Google Cloud Video Intelligence API analysis, OpenCV annotation, FFmpeg audio re-sync, and Cloudinary delivery.
- Benchmarked end-to-end processing time across clip lengths (~1.2 min for sub-1-min clips, 5–8 min for 3–4 min clips) and validated correct label detection across tested video samples.
- Integrated Cloudinary for scalable media storage/delivery and built an OpenCV-based preprocessing stage for automated frame extraction ahead of API calls.

ElderEase — IoT Elderly Health Monitoring System (GSSoC) *Python, Nodemailer, Twilio | GitHub*

- Designed a caregiver alert engine that triggers automated email (Nodemailer) and SMS (Twilio) notifications against medically-calibrated vital-sign thresholds, cutting response delay in simulated emergency scenarios.

Rabbit Language Assistant — Web Application *Python, Flask, JavaScript, Gemini API | GitHub*

- Built a full-stack language-learning tool combining real-time translation, grammar checking, and text summarization with a Gemini-powered conversational chatbot for interactive Q&A.

ACHIEVEMENTS

- Completed the Quantium Software Engineering Job Simulation (Forage) — built and tested a Dash data-processing application.
- Active contributor in GirlScript Summer of Code (GSSoC), building the ElderEase caregiver alert system.
- Participated in Smart India Hackathon (SIH), a national-level hackathon initiative.
- Solved 100+ Data Structures & Algorithms problems on LeetCode and SmartInterviews.