

RACHAMADUGU BHAVYA SRI

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Career Objective

Computer Science Engineering student with hands-on experience in Computer Vision, AI systems, and backend development. Interested in applying software, AI, and cloud skills to build real-world, impactful solutions through internships.

Education

B.Tech, KL University	2023–2027
<i>Current GPA: 9.87</i>	
Class 12, Sri Chaitanya	2023
<i>Marks: 990</i>	
Class 10, Sims My School	2021
<i>Marks: 600</i>	

Certifications

- AWS Certified Cloud Practitioner (CLF-C02) — Amazon Web Services
- JPMorgan Chase & Co. Software Engineering Virtual Experience — Forage
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional — Oracle
- Aviatrix Multicloud Network Associate — Aviatrix
- Salesforce Certified AI Associate — Salesforce

Projects

Vehicle Detection, Tracking & Counting — Python, YOLOv8, OpenCV (*Computer Vision*)

- Fine-tuned a pretrained YOLOv8 model using transfer learning on a custom car-only dataset.
- Implemented vehicle tracking with unique IDs and a virtual counting line to avoid double counting.
- Built an end-to-end computer vision pipeline for real-time vehicle detection and counting in traffic videos.

Internal Knowledge Navigator — Python, RAG, Embeddings, Gemini (*AI Systems Project*)

- Designed an AI-powered internal knowledge search system using Retrieval-Augmented Generation (RAG).
- Built a modular pipeline for document ingestion, embedding, retrieval, and response generation.
- Implemented semantic search over internal documents with structured JSON outputs.

VoxDetect — Python, Audio Processing, ASR, Speaker Diarization (*Audio AI Project*)

- Built a target speaker diarization and ASR system for multi-speaker audio conversations.
- Implemented voice activity detection, speaker separation, and Whisper-based transcription.
- Generated timestamped, per-speaker JSON outputs with punctuation restoration.

Skills

Languages	Java, C, Python
Backend & APIs	Flask, Spring Boot
AI / ML	Deep Learning, Computer Vision, Speech Processing
Databases	SQL, MySQL, Amazon RDS
Web Development	HTML, CSS, React.js
Cloud & DevOps	AWS, Git, Docker, Jenkins, CI/CD Pipelines
Other	Object-Oriented Programming (OOP), Data Structures, Problem Solving