

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

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