

# Amartya Anayachala

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## SUMMARY

AI/ML Engineer with experience in Data Processing, ML, DL, NLP, and Generative AI. Skilled in LLM applications (RAG, fine-tuning, agentic systems) and building end-to-end ML pipelines for deployment. Proficient in Python, TensorFlow, scikit-learn, OpenCV, LangChain, and data engineering tools. Preparing for AWS Cloud Practitioner and Solutions Architect Associate to enhance AI-cloud integration expertise.

## EDUCATION

### Vellore Institute of Technology, Chennai

B.Tech in Computer Science and Engineering with AI and Robotics

2022 - 2026

GPA: 8.67

## WORK EXPERIENCE

### Data Analyst Intern, National Informatics Centre - New Delhi

June 2024 - July 2024

- Automated ETL and data processing pipelines in Python and SQL, reducing manual reporting workload by 20%.
- Designed modular data transformation scripts improving query runtimes by 10% and enhancing model input consistency.
- Built prototype dashboards via Power BI for predictive analytics, integrating early-anomaly warning mechanisms for KPI deviations.

## PROJECTS

### Chef's Cam - AI-Driven Recipe Discovery Platform

Tools Used: Python, Node.js, TypeScript, LangChain, FastAPI, PostgreSQL

[chefscam.vercel.app/](https://chefscam.vercel.app/)

[github.com/azrael-2704/chefs-cam/](https://github.com/azrael-2704/chefs-cam/)

- Built a cloud-deployed AI platform with RAG pipelines and ML enrichment using LangChain and Gemini API, ensuring 99.5% uptime.
- Designed data preprocessing and normalization pipelines, reducing batch time by 40% and ensuring consistent data ingestion.
- Implemented AI-driven metadata generation and LLM query optimization, boosting contextual accuracy and recipe relevance by 30%.

### Data-Sensei (In Progress)

Tools Used: Python, LangChain, SQL, FAISS, scikit-learn, Node.js

- Built a natural language to SQL model with 90% structural accuracy, integrating FAISS for semantic retrieval and anomaly detection.
- Designed an agentic architecture with modular agents and supervised checks, boosting reliability by 30%.
- Automated workflows through ML-based orchestration, cutting analyst intervention by 60%.

### Opportune: JobMate

Tools Used: Python, spaCy, Streamlit, Gemini API

[opportune-jobmate.streamlit.app](https://opportune-jobmate.streamlit.app)

[github.com/azrael-2704/opportune-jobMate](https://github.com/azrael-2704/opportune-jobMate)

- Built NLP-based resume parsing models with 95% extraction accuracy using spaCy embeddings.
- Designed a recommendation pipeline leveraging Gemini API for personalized role suggestions, reducing query latency by 30%.
- Incorporated retrieval and ranking mechanisms improving suggestion relevance for 30% of pilot users.

### Smart Glasses for Disabled (In Progress)

Tools Used: Python, OpenCV, TensorFlow, YOLOv8, Raspberry Pi 5

- Trained real-time object detection models using YOLOv8 optimized for embedded inference.
- Engineered a low-latency vision pipeline with TensorFlow and OpenCV, reducing inference lag for accessibility use-cases.
- Designed context-aware auditory feedback system, improving field usability by 40%.

## SKILLS

**Technical Skills:** Python • C++ • R • Java • OOP • DSA • ML • DL • NLP • LLMs • RAG • LangChain • TensorFlow • scikit-learn • OpenCV • Model Tuning • Data Engineering • Pandas • NumPy • SQL • NoSQL • ETL • FastAPI • Linux • AWS • Power BI • Matplotlib • Seaborn

**Soft Skills:** Leadership • Analytical Thinking • Teamwork • Problem Solving • Communication • Critical Thinking • Initiative • Adaptability

## CERTIFICATIONS AND TRAINING

### SQL (Intermediate) (HackerRank)

[Link to Certificate](#)

### Problem Solving (Intermediate) (Hackerrank)

[Link to Certificate](#)

## ACHIEVEMENTS

- Founded "Fraternity of Leaders" – student organization for peer-driven leadership, innovation, and technical upskilling.
- Led Event & Venue Management Committee (2024) – coordinated 150+ events with process automation for scheduling and logistics.
- Runner-up – Riviera Street Play Competition – managed execution under tight constraints, showcasing teamwork and creative direction.