

SUMMARY

Passionate **ECE undergraduate** interested in **Applied AI/ML and Software Development**, Proficient in **Python, C, SQL, and Data Structures**, with hands-on experience in building **FastAPI backends, ML pipelines, and Retrieval-Augmented Generation (RAG) systems**. Skilled at **data processing, model deployment, and debugging** across Linux environments. Passionate about developing **AI-driven backend systems** that bridge machine learning with scalable software engineering.

EDUCATION

<b>KL University</b> B. Tech in Electronics and Communication Engineering   GPA: 9.3 <b>Govt. Polytechnic College</b> Diploma in Electronics and Communication Engineering   GPA: 8.9	Vijayawada, India <b>Aug 2023 – Apr 2026</b> Atmakur, India <b>Nov 2020 - Mar 2023</b>
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SKILLS SUMMARY

• <b>Programming Languages:</b>	Java, Python, C, SQL, Embedded C
• <b>Core Concepts:</b>	Data Structures & Algorithms, OOP's, DBMS, Operating Systems
• <b>Backend Development:</b>	FastAPI's, RESTful API's, MySQL, CI/CD, Linux
• <b>Data &amp; ML:</b>	Pandas, NumPy, scikit-learn, Streamlit, RAG Pipeline, ML Workflow Automation
• <b>Tools &amp; Platforms:</b>	VS Code, Git, GitHub, MySQL Workbench, Render
• <b>Automation &amp; DevOps:</b>	DevOps, Shell scripting, Docker

WORK EXPERIENCE

<b>Production Trainee   HL Mondo Automotive India Ltd   Chennai</b>	<b>July 2022- January 2023</b>
<ul style="list-style-type: none"><li>Led an 8-member team of 8+ members, achieving the highest production target in the line's history.</li><li>Improved production consistency by 15% through process analysis and optimization.</li><li>Supported the Quality Inspection Team in identifying and resolving mechanical and workflow issues.</li><li>Awarded "Best Intern" for initiative, leadership, and contribution to efficiency.</li></ul>	

PROJECTS

AI Assistant using RAG | [LINK](#)

Tech Stack: Python, LangChain, FAISS, OpenAI API, FastAPI, Frontend

- Designed and implemented a **RAG-based chatbot system** that provides contextual responses using domain-specific PDFs and documents.
- Integrated **LangChain and FAISS vector database** for semantic search and efficient document retrieval. Developed a **FastAPI backend** for RAG query processing and integrated **frontend with HTML, CSS, JavaScript** for User interaction.
- Experimented with **prompt optimization and LLM** integration for improving relevance and latency.
- Demonstrated strong skills in **applied LLM** engineering, backend API orchestration, and data pipeline design.

AI-Based Student Dropout Prediction System | [LINK](#)

Tech Stack: Python, Pandas, NumPy, Scikit-Learn, Frontend

- Built a complete **machine learning pipeline** for predicting student dropout risks using **Random Forest and Logistic Regression models**.
- Implemented **data preprocessing, feature scaling, and hyperparameter** tuning to enhance model accuracy.
- Designed an **interactive Streamlit dashboard** enabling real-time insights and predictions for academic institutions.

RideWithUs – Ride Booking Platform | [LINK](#)

Tech Stack: FastAPI, Python, Render

- Developed a modular FastAPI backend for booking, trip matching, and fare estimation.
- Integrated user authentication and admin APIs with MySQL for persistent storage.
- Deployed using Render and CI/CD, learned scalable backend design and testing workflows.

CERTIFICATES

- Python Programming Mastery** - Udemy
- Oracle Cloud Infrastructure 2025 Generative AI Professional** – Oracle

ACHIEVEMENTS

- Best Intern Award** – HL Mando Automotive India Pvt.Ltd, 2023
- Qualified HackWithInfy 2025** – Cleared the coding round of Infosys flagship competition