

PADMASALI GOVARDHAN

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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

KL University

B. Tech in Electronics and Communication Engineering | GPA: 9.3

Vijayawada, India

Govt. Polytechnic College

Diploma in Electronics and Communication Engineering | GPA: 8.9

Aug 2023 – Apr 2026

Atmakur, India

Nov 2020 - Mar 2023

SKILLS SUMMARY

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

WORK EXPERIENCE

Production Trainee | HL Mondo Automotive India Ltd | Chennai

July 2022- January 2023

- Led an 8-member team, achieving the highest production target in the line's history.
- Improved production consistency by 15% through process analysis and optimization.
- Supported the Quality Inspection Team in identifying and resolving mechanical and workflow issues.
- Awarded "Best Intern" for initiative, leadership, and contribution to efficiency.

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