

DAVID JAYARAJ A

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Professional Summary

Detail-oriented AI and Data Science professional skilled in machine learning, data analytics, and software development. Proficient in Python, SQL, and ML, with hands-on experience in developing AI-powered solutions and building end-to-end projects.

Education

Karunya Institute of Technology and Sciences, Coimbatore, India
B.Tech Artificial Intelligence and Data Science

Aug 2023 – May 2027

Skills

Languages: Python, Java, C, JavaScript, TypeScript

Frameworks: Django, Flask, FastAPI, React, Tailwind, Bootstrap, Pandas

Databases: MySQL, PostgreSQL, MongoDB, SQLite

Tools: Power BI, Postman, VS Code, Docker, Git

AI/ML: Scikit-Learn, TensorFlow, Keras, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP)

Soft Skills: Problem Solving, Critical Thinking, Team Collaboration, Communication

Work Experience

Edify Techno Solution — Data Science & Machine Learning Intern Jun 2024 – Jul 2024

- Performed data preprocessing, exploratory analysis, and predictive modeling using machine learning to generate actionable insights from real-world datasets.

Intel Unnati Industrial Training — AI & Data Science Trainee Mar 2025 – Apr 2025

- Gained hands-on experience in AI, ML, and data-driven applications through real-world industrial projects.

Heritech (miABC Tamil Project) — AI Integration Intern Dec 2025 – May 2026

- Developed adaptive AI modules for a bilingual Tamil early-literacy platform using LLMs, LangChain, and FAISS for personalized learning.

Projects

AI-Powered Personal Tutor: Adaptive Learning System Mar 2025 – Apr 2025

- Built a full-stack adaptive learning platform with FastAPI & React JS, featuring AI-driven lessons, quizzes, real-time tutoring, and progress tracking using OpenAI & local models.

AI Call Intelligence Platform Aug 2025 – Sep 2025

- A comprehensive AI-powered platform for analyzing vendor-distributor conversations.
- Features advanced speech-to-text, intelligent pain point extraction, sentiment analysis, and automated action item generation with real-time analytics.

AI-Smarter-Shop: Industrial IoT Safety Monitoring Sep 2025 – Oct 2025

- Enterprise-grade safety monitoring solution integrating Arduino IoT sensors, YOLOv8 computer vision, and real-time alerts (Email & SMS) for industrial environments.
- Real-time monitoring with Arduino ESP8266, multi-sensor setup, and predictive analytics.

Certifications

- Google Data Analytics Professional Certificate – Coursera (Mar 2025)
- Career Essentials in Data Analysis – Microsoft & LinkedIn (Oct 2024)
- Explore Machine Learning using Python – (Mar 2025)