AKSHAYA R S

achunagu0923@gmail.com LinkedIn GitHub +91 8148786637

Objective

A passionate 3rd-year AI/ML engineering student with a strong foundation in Machine Learning, Deep Learning, and Python. Eager to build real-world AI solutions using generative models and AI agents. Interested in working on innovative projects like memory-driven agent design, RAG, and deployment using modern GenAI toolkits. Always ready to learn, experiment, and contribute to impactful tech.

Education

B.Tech in Artificial Intelligence and Machine Learning *Expected 2026*
Sri Shakthi Institute of Engineering and Technology, Tamil Nadu
CGPA: 7.84 / 10

Skills

Programming	Python, SQL
Frameworks	Django, Flask, TensorFlow, LangChain, LangGraph, Pandas, Numpy, Streamlit, Scikit-learn
Databases	MySQL, SQLite, PostgreSQL, FAISS, ChromaDB
Tools	Git/GitHub, Docker, AWS, Figma, Anaconda, LabelImg
Certifications	Generative AI, Agile Scrum (Infosys Springboard), GitHub Professional, Docker Foundations (View Details)

Experience

Artificial Intelligence Intern, Infosys Springboard *Oct 2024 – Dec 2024*
Remote Internship

- Led the development of the **"Beyond QWERTY" Voice-Based Form Filling Project**, integrating AI, predictive modeling, and voice recognition to enhance accessibility.
- Integrated a Large Language Model (LLM) based Chatbot with voice input, leveraging feature engineering techniques for dynamic form filling.
- Applied Agile methodologies and GitHub workflows for collaboration and version control.

Projects

PCB Fault Detection Using NVIDIA DeepStream SDK

- Developed a **real-time fault detection system** for printed circuit boards using **NVIDIA DeepStream SDK**, **YOLOv5**, and **Docker**.
- Leveraged **object detection pipelines** to accurately identify manufacturing defects and deployed the solution on **edge devices** for scalable **smart quality inspection**.
- Enabled faster analytics by integrating DeepStream inference results with lightweight dashboards.

AI Career Counselor Bot

- Designing a multi-agent memory-driven GenAI application using **LangGraph** and **AutoGen** that guides students in career planning.
- Implements document ingestion via **LlamaIndex**, with personalized advice generated and vector similarity search.
- Deployed on Streamlit with persistent session memory for tailored feedback.

Disease Prediction System

- Designed and implemented an intelligent **health risk assessment tool** using **machine learning and deep learning models**.
- Predicted likelihood of **heart disease**, **diabetes**, **breast cancer**, and **brain tumors** based on personalized user input and clinical indicators.
- Applied **feature selection** and **model evaluation techniques** to improve accuracy and interpretability of predictions.

AI Notes Summarizer with Voice Input (In Progress)

- Developing a web app that transcribes audio and generates summarized notes using **LangChain**.
- Supports PDF uploads and voice input with a friendly interface built in **Streamlit**.
- Includes future integration for flashcard and quiz generation.

Extracurricular Activities

- Completed the AI Builders Lab Bootcamp by Google and Hack2Skill
- Semi-finalist, Zoho Cliqtrix 2025 Bot Building Contest