

EDUCATION

Vellore Institute of Technology (VIT), Vellore
B.Tech. (Computer Science Core) | CGPA: 8.10

2025

WORK EXPERIENCE

Software Development Intern

Vellore, Tamil Nadu

Flixidin

Feb 2024 - Aug 2024

- Engineered and streamlined **CI/CD pipelines** using **Docker** and **Jenkins**, achieving **100% deployment compliance**
- Optimized backend performance** by enhancing server-side logic, reducing **API retrieval time by 25%**
- Built **3 secure deployment pipelines** with **100% compliance** delivering projects ahead of schedule in **Agile teams**

Front End Development Intern

Remote

Youngminds Technology Solutions

Oct 2023 - Dec 2023

- Refined **web interfaces**, boosting engagement by **25%**, and developed **React components**, speeding up development by **30%**. Streamlined **Git/GitHub workflows** for faster deliveries and improved **UI/UX**, increasing user satisfaction

PROJECTS

AIRA: Generative LLM Research Assistant | LangChain, OpenAI

- Developed a **news research tool** utilizing **LangChain** and **OpenAI**, reducing **research time for 50+ analysts by 30%**
- Integrated **REST APIs** and **microservices architecture**, enabling efficient handling of over **10,000 text records** and improving **retrieval accuracy by 40%**
- Executed a **chatbot** using a **RAG pipeline (LangChain + OpenAI)**, improving **response quality** and **system efficiency**

AUTOVERSE: Multimodal AI for Autonomous Systems | Python, PyTorch, OpenCV

- Engineered an **AI framework** integrating **LLMs (Gemini 1.5 Flash, LLaVA-1.6, BLIP-3)** with **PyTorch & OpenCV**
- Implemented **speech, text, and visual data processing** using **OpenCV & MATLAB**, optimizing **deep neural networks** and improving **object detection accuracy by 30%**
- Deployed **lightweight CV models** using **ONNX Runtime** for **efficient inference**, optimizing **real time decision speed by 25%**

GENOS: Autonomous Multi-Agent GenAI System | Python, LangGraph, CrewAI, GPT-4o

- Built **multi-agent workflows** using **LangGraph** and **CrewAI**, enabling specialized **LLM agents** to collaborate on complex tasks with contextual memory and autonomous execution
- Implemented a **RAG-based reasoning layer** to enhance decision relevance, improving **multi turn task performance** and **factual accuracy by 45%** in simulated enterprise environments
- Deployed **the system** using **Docker** and **FastAPI**, delivering a modular framework for **real-time LLM collaboration**, tool usage and adaptive task flows

RESEARCH AND PUBLICATIONS

IJNRD - International Journal of Novel Research and Development

Author

Title- Disease Outcome prediction ([View Publication](#))

- Researched machine learning for disease prediction**, enhancing **model robustness** and **reducing bias**. Designed a **Python-based diagnostic tool** analyzing **100+ symptoms** to improve **treatment timelines**

LEADERSHIP EXPERIENCE

Entrepreneurship Cell, VIT Vellore

Senior Core

- Launched and led **3+ strategic projects**, fostering **innovation and collaboration**, driving a **15% increase in participation**
- Spearheaded 5+ workshops**, introducing **150+ students** to **technology trends, innovation, and startup strategies**, receiving **95% positive feedback** on career relevance

IEEE Computer Society, VIT Vellore

Senior Core

- Conceptualized and delivered 5 machine learning workshops**, equipping **210+ participants** with **crucial techniques**, culminating in **3 real-world AI applications**
- Managed outreach initiatives, increasing **chapter memberships by 20%** and securing **3+ industry partnerships**

TECHNICAL SKILLS AND COURSEWORK SUBJECTS

Programming Languages: Python, R, Java, C, C++, C#, JavaScript**Frameworks/Libraries:** FastAPI, Pandas, Numpy, Django, Scikit-learn, TensorFlow, LangChain, Keras, OpenCV, Matplotlib, Crewai, Hugging Face, MLflow, Streamlit, ReactJS, Node.js**Databases/Cloud Platforms:** SQL, MongoDB, PostgreSQL, AWS (EC2, Lambda, S3, SageMaker), Google Cloud, Microsoft Azure (Azure ML, Azure AI Services), Google Vertex AI, Apache Spark**Tools:** Git, GitHub, Docker, Containers, Kubernetes, VSCode, Power BI, Tableau, Apache Airflow, Bitbucket, Jenkins**Other Tools (No/Low Code):** n8n, Zapier, Relevance AI, Make, Windsurf, Lovable.dev**Coursework Subjects:** Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Software Engineering, Data Structures and Algorithms, Computer Networks, Operating Systems

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES:

- Led diverse teams in 3+ major hackathons** (Devsoc, Technica, Yantra), developing **user-driven software solutions** that improved **functionality and user experience by 40%**
- Executed outreach initiatives** and **coordinated 10+ teams** in social organizations, driving **high-impact community service projects** for **300+ beneficiaries**