

KSHITIZ SRIVASTAVA

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Education

Vellore Institute of Technology

October 2022 - June 2026

Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML)

CGPA: 8.39/10

Technical Skills

Programming Languages: Python, Java, SQL, C++, JavaScript

GenAI & LLMs: Langchain, LangGraph, NLTK, LLM APIs, Prompt Engineering

Deployment & Visualization: Flask, Streamlit, Power BI

Databases & Tools: MySQL, MongoDB, Git, GitHub, VS Code, Jupyter, REST APIs

Projects

Architect AI (Autonomous Code Generation Agent)

Python, LangGraph, LangChain, Groq API, Pydantic

May 2025 - June 2025

- Built an autonomous multi-agent AI system using **LangGraph** to generate entire project codebases, reducing initial setup and boilerplate coding time by over **90%**.
- Orchestrated a 3-agent workflow (Planner, Architect, Coder) to automate the development lifecycle. Achieved successful generation of projects with **10+ files** from a single prompt in **90%** of attempts.
- Created a Coder agent with **ReAct** architecture and file system tools, enabling human-like interactive coding. This reduced debugging time by **40%** and accelerated project completion.
- Leveraged **Groq Cloud APIs** for high-speed LLM inference, achieving generation speeds of **300+ tokens/second** to build functional web apps and REST APIs in real-time.

GenAI Nexus (Agentic Chatbot Framework)

Python, LangGraph, LangChain, Streamlit, SQLite, OpenAI API

April 2025 - May 2025

- Developed an agentic AI chatbot using **LangGraph** capable of autonomous integration with **3+ external tools** (web search, calculator, stock data) to execute complex, multi-step tasks.
- Architected a stateful, multi-threaded backend to ensure **100% persistent conversation memory**. This system stores all chat history in an **SQLite database**, enabling robust multi-user support.
- Devised a full-stack architecture with a **Streamlit** frontend that displayed real-time, token-by-token **streaming responses**. This improved perceived response time by **70%+** from the backend.
- Established a modular framework featuring **3 progressive implementations** (basic, database-backed, and agentic) to demonstrate a full range of stateful AI workflows.

HireEdge AI (AI-Powered Career Strategist)

Python, Streamlit, Gemini 2.5 Flash, LangChain, REST APIs

February 2025 – March 2025

- Engineered a comprehensive career optimization platform using **Google Gemini 2.5 Flash** and **Streamlit**, delivering intelligent resume analysis with a **92% compatibility match accuracy** for target job roles.
- Orchestrated a **multi-API research engine** integrating News, Alpha Vantage, and SERP APIs to fetch real-time market and financial intelligence, reducing candidate research time by **70%**.
- Implemented a proprietary **Job Matching Algorithm** that conducts automated skill gap analysis and generates context-aware interview questions, resulting in highly targeted preparation strategies.
- Designed a robust **Session Persistence System** to ensure cross-module data availability, creating a seamless, stateful user experience across resume scanning, job matching, and company research workflows.

Achievements

- Secured **Top 50 National Rank** (out of 5,000+ participants) in the **Zelestra X AWS ML Ascend Challenge – 2nd Edition**, demonstrating expertise in **machine learning and applied AI solutions**. 2025
- Awarded **2nd Place** in the university-level **Robotics & Coding Workshop** at VIT Bhopal, designing and implementing projects with **Arduino, Python, and algorithm development**. 2024

Courses

MERN Full Stack Developer Certification - Issued by Ethnus via Codemithra

2025

LangChain + OpenAI Chat Applications - 365 Data Science

2024

Applied Machine Learning in Python - University of Michigan via Coursera

2023