

Jyotirmaan Srivastava

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SUMMARY

- Highly motivated Computer Science Engineering student specializing in Generative AI, LLMs, and multi-agent systems. Proven ability to develop and deploy AI-driven applications, leveraging tools like Crew AI, Cursor AI, and Python. Demonstrated expertise in prompt engineering, agent coordination, and natural language interfaces. Seeking to contribute to innovative AI projects in a collaborative environment.

EDUCATION

SRM University | TN, IN

B.Tech in Computer Science Engineering

CGPA: 8.25

2021 - 2025

SKILLS

Programming Languages: Python

GenAI & LLM Frameworks: CrewAI, Cursor AI, LangChain (via CrewAI)

Databases: MySQL, MongoDB

Web Development: HTML, CSS, Bootstrap, React, Vite

Cloud & Deployment: Google Studio (Dashboarding & Visualization), *Actively learning:* Docker, Flask/FastAPI

Other Tools: Figma, GitHub, GitHub Copilot

PROJECTS

Resume Tailoring Agent (Powered by CrewAI)

Spring 2025

- Built an **AI-powered system** that tailors resumes to match job postings by extracting key skills and requirements from LinkedIn job URLs or raw descriptions.
- Designed modular **CrewAI agents** for parsing resumes, segmenting job descriptions, matching keywords, and rewriting tailored resumes using **OpenAI LLMs**.
- Integrated **semantic search and embeddings** to ensure contextual alignment between user resumes and job descriptions, boosting match accuracy.
- Enabled multi-format input support (PDF, DOCX, text) and automated output of personalized resumes to improve user interview success rate.
- Tech stack: **Python, CrewAI, OpenAI APIs, LangChain, Embeddings**.

Trip Planning Agentic System | GenAI

Spring 2025

- Built a **travel assistant agent** using **Crew AI** that automates itinerary generation based on user preferences like budget, destination, and travel dates.
- Integrated multiple specialized agents (flight searcher, hotel recommender, activity suggester) into a collaborative workflow using the Crew AI framework.
- Used **LLMs to dynamically generate personalized travel plans**, incorporating real-time data from third-party APIs and user inputs.
- Enhanced user experience by allowing users to interact with the agentic system via a **natural language interface**.
- Optimized task execution flow through prompt chaining and agent coordination, leading to improved recommendation relevance.

Latest AI News Aggregator | GenAI

Spring 2025

- Designed and deployed an agentic workflow using **Crew AI** to collect, summarize, and categorize the **latest news on AI and machine learning**.
- Built specialized agents for **scraping articles**, **LLM-powered summarization**, and **categorical classification** (e.g., LLMs, policy, research).
- Used **LangChain-compatible tools** with Crew AI to improve modularity and response accuracy.
- Deployed a web-based dashboard using Google Studio for live visualization of the news feed, allowing end-users to filter news by topics or timeline.
- Showcased how agentic systems can perform real-time, multi-step tasks effectively in information-heavy domains.

AI-Powered Study Planning Assistant

Spring 2025

- Developed an intelligent assistant using **CrewAI** and **LLMs** that generates personalized study plans from natural language exam inputs.
- Implemented **NLP pipelines** to extract key details like subjects, exam dates, topics, and available preparation time from user input.
- Engineered an adaptive scheduling algorithm that accounts for topic complexity, importance, and time constraints to create day-wise plans.
- Integrated study strategy recommendations including **memory techniques**, **review cycles**, and **practice methods** for each topic.
- Curated **high-quality YouTube educational videos** using semantic filtering to provide direct links to reliable learning content.
- Exported final plans in **Markdown format**, optimized for readability and sharing across digital platforms.

CERTIFICATES

- **Introduction to Cloud Computing** – COURSERA Certificate
- **Figma UI/UX Design Essentials** – UDEMY Certificate
- **Networking Basics** – CISCO Certificate

ACHIEVEMENTS

2nd Place - Hackatoge

TEXUS, SRM

Developed an **agro-based trading platform** using HTML, CSS, and Bootstrap. Secured **2nd place** among 10 teams based on innovation and design.

Participation - Hacksummit 2.0

ARUSH, SRM

Built a web platform where users can **upload images of garbage** in their surroundings. A cleaning team reviews the images, identifies the waste type, and takes **prompt cleanup actions**.