

Yash Agrawal

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Education

Vellore Institute of Technology, Vellore - B.Tech CSE (2022-2026)

CGPA: 9.42/10.0

Work Experience

Siemens EDA - Hyderabad, On-Site

Jan 2026 - Present

Developer Intern

- Enabled conversational modification of engineering design artifacts in Siemens Capital Copilot by developing a **Lang-Graph workflow** integrating tool calls and structured design updates.
- Built an **agentic developer productivity framework** where a coordinator agent orchestrates specialized agents for end-to-end workflows, allowing teams to create custom agents, tools, and skills.

DocLens.ai - Bengaluru, On-Site

May - July 2025

Software Engineering Intern

[Certificate](#) | [Notion](#)

- Developed a **Medical Necessity Evaluation pipeline** comparing medical summaries with ground truth to generate reports assessing treatment appropriateness for insurance workflows.
- Improved disease ground-truth retrieval and report accuracy using **NLP, Hybrid Semantic Search, and RAG**.
- Implemented a document ingestion pipeline generating contextual Q&A using **Knowledge Graphs, RAGAs, DeepEval, and topic modelling** for a chat-based recommendation system.

Bicycle AI - Hyderabad, On-Site

May - July 2024

AI Engineering Intern

[Certificate](#) | [Notion](#)

- Improved context aware **SQL generation accuracy** using **Chain-of-Thought reasoning** and **ReAct agents**.
- Designed a **custom benchmarking framework** to evaluate and rank LLMs on context driven SQL generation tasks.

Skills

Languages	Python, Java, C++, SQL, JavaScript, C, R
AI Agent Frameworks	LangChain, LangGraph, LlamaIndex, Hugging Face Agents
Agent Systems	Vector Databases(Qdrant, Chroma), Knowledge Graphs(Neo4j), Evaluations(RAGAs, DeepEval)
Agent Concepts	RAG, MCP, A2A, VLM, Agent Skills, Memory Architecture, Embeddings, Pipelines & Architecture
Data, AI & ML	PyTorch, TensorFlow, Transformers, LLM Fine-Tuning, NLP, Data Mining, scikit-learn
Foundation	Web-Dev, AWS, GitHub, Web Scraping, API Design & Testing (Postman, Jest, Playwright)

Projects

ClosedClaw - Capsule Based Multi-Agent Orchestrator - *LangGraph, LangChain, MCP*

[GitHub](#)

- An **orchestration** framework that *creates, discovers, and stores* agents at runtime while maintaining tools and skills.
- Implemented **automated agent activation** with *human-in-the-loop*, and *agent specific memory management*.

ForrestRun - Deterministic Runtime for AI Workflows - *Python*

[GitHub](#)

- Built an **execution runtime for AI workflows** with *workflow hashing, state versioning, and step level execution tracing*.
- Implemented a **run lifecycle engine** with *retry policies, check-pointing, and a "resume"* for long running agent pipelines.
- Developed a **replay and observability system** enabling historical runs to be reconstructed with *step contracts, branching inspection, and execution visualization*.

MyCompAgent - Browser Control Agent - *Playwright, CLI Automation*

[GitHub](#)

- Built a **browser automation agent** capable of executing real world actions through playwright commands.
- Implemented an **adaptive memory system** where the agent records successful strategies and failure patterns, allowing it to *learn effective solutions* and improve.

AquaTwin - AI Agent for Water Management Digital Twin - *LangGraph*

[Demo](#) | [GitHub](#)

- Built a workflow for telemetry data access, historical simulation comparison, real time control, and next best action.
- Implemented **smart simulation capabilities** with *automatic parameter generation* and outcome analysis.

Real Time VLM Pedagogy - *LangGraph, VLM(Visual Language Model), OpenCV*

[GitHub](#)

- Developed a real time tutoring system using computer vision, audio analysis, and Vision Language Model to facilitate stepwise feedback for handwritten math problems and guitar technique.
- Designed an event based pipeline utilizing OpenCV to enabling low latency (300ms) interactive feedback.

Other: NumPy Neural Network, Agentic Article Writer, Medical Consultation Report Generator, Scrollable: phone control agent, Learnwithme: website to find people to learn with, notes-me: android second brain, Slack-Twitter Bot, Spotify-YouTube Migrator

Certifications

Supervised Machine Learning: Regression and Classification

[DeepLearning.AI \(2023\) Link](#)

Agents Course, LLM Course

[Hugging Face \(2025\) Link](#)

Google Cloud Skills Boost: LLM, GenAI, Transformers

[Google Cloud \(2023\) Profile](#)