

Shivam Shrivastava

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science, spec in Health Informatics - 8.03/10

Bhopal, MP

Aug. 2022 – May 2026

Aster Public School

Class 12th — 93.2%

Greater Noida, UP

Apr. 2020 – May 2021

EXPERIENCE

AI Intern

MindPeers

August 2025 – Present

Remote

- Contributing to the design and development of Agentic AI systems, building autonomous workflows that streamline organizational processes.
- Collaborating with multiple teams to prototype and implement multimodal AI solutions, integrating text, vision, and structured data for richer user experiences.
- Participating in the full end-to-end AI development cycle — from research and model experimentation to deployment and performance optimization.

AI/ML Backend Intern

Skillcef

March 2025 – June 2025

Remote

- Developed an interactive coding challenge platform powered by LLMs, enabling an AI mentor to provide personalized real-time guidance and adaptive problem-solving strategies.
- Integrated GenAI-based code understanding models into the editor to deliver contextual hints, instant debugging support, and intelligent error explanations, improving learner productivity.
- Implemented ML-driven evaluation pipelines that analyzed code correctness along with space and time complexity, ensuring fair, scalable, and automated assessment of user submissions.

PROJECTS

CLI Agent: Natural Language to Shell Commands | *Python, PyTorch, Hugging Face (Transformers, PEFT)*

- Developed an AI-powered CLI Agent leveraging LoRA fine-tuned deepseek-coder-1.3b-instruct on a custom-curated dataset of 200+ CLI commands for natural language to shell command translation, achieving significant performance improvement during fine-tuning.
- Engineered robust agent orchestration, integrating dry-run safety features and ROUGE-L based evaluation for validated output quality and enhanced user control.

StrudleMuse: AI Strudel Code Generator | *Python, Flask, Gemini API, FAISS, SentenceTransformers*

- Built an AI agent that converts natural language prompts into executable Strudel live-coding music patterns.
- Integrated Gemini Pro with FAISS-based document retrieval for context-aware musical code generation.
- Scraped and embedded Strudel documentation using Sentence Transformers for RAG (retrieval-augmented generation).

TECHNICAL SKILLS

Languages: Python, MySQL, JavaScript, HTML/CSS

Frameworks & Tools: Flask, FastAPI, HuggingFace, Pinecone, FAISS, Streamlit, LangChain, CrewAI

Developer Tools: Git, GitHub, Visual Studio Code, Cursor

ACHIEVEMENTS

FinGenAI Hackathon: *First Prize for developing a solution involving Fintech and Generative AI*

Skillcef Synergy AI Hackathon: *Third Prize for developing AI Coding Mentor an application designed to provide coding assistance.*

Reliance Foundation Undergraduate Scholar