

Shivam Shrivastava

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science, spec in Health Informatics - 7.9/10

Bhopal, MP

Aug. 2022 – May 2026

Aster Public School

Class 12th — 93.2%

Greater Noida, UP

Apr. 2020 – May 2021

EXPERIENCE

AI/ML Backend Intern

Skillceef

March 2025 – June 2025

Remote

- Developing an interactive coding challenge platform with an AI-powered mentor for real-time guidance.
- Enhancing the code editor with advanced features, including syntax highlighting, debugging tools, and real-time feedback.
- Implementing efficient evaluation mechanisms, including space and time complexity analysis, to assess user-submitted code.

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).
- Designed a musical-themed web interface using HTML/CSS/JS and connected it to a Flask backend for real-time code synthesis.

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

EXTRACURRICULAR ACTIVITIES

Freelance Club

- Active member responsible for handling AI/ML components of various freelance projects
- Collaborate with cross-functional teams to deliver client-specific solutions
- Apply cutting-edge AI/ML techniques to solve real-world problems in diverse domains

ACHIEVEMENTS

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

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

Reliance Foundation Undergraduate Scholar