

# Shivam Shrivastava

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## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science, spec in Health Informatics - 8.2/10

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

Skillcef

March 2025 – Present

Australia

- 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

### AI Coding Mentor | Python, Streamlit, Hugging Face, LangChain

- Built an AI-powered coding assistant capable of debugging, analyzing, and explaining code functionality.
- Developed a user-friendly Streamlit interface that integrates with CodeLlama for backend processing.
- Fine-tuned CodeLlama-7b using Hugging Face Transformers, optimizing model performance with 4-bit quantization and LoRA.
- Created predefined prompt templates for debugging, complexity analysis, and code conversion to ensure accurate and consistent responses.

### Investment Portfolio Analyzer | Python, Flask, jQuery, Google Gemini

- Developed a responsive web application using Flask backend and jQuery frontend for real-time investment portfolio analysis
- Integrated Google's Generative AI (Gemini 2.0) for intelligent portfolio image analysis and insights
- Implemented session management to maintain context for follow-up questions about portfolio data
- Built a chat-like interface with markdown rendering and dynamic message handling with an image processing pipeline using PIL for portfolio snapshot analysis

## TECHNICAL SKILLS

**Languages:** Java, Python, MySQL, JavaScript, HTML/CSS

**Frameworks:** Flask, React, Bootstrap, Tkinter, FastAPI

**Developer Tools:** Git, GitHub, Visual Studio Code, PyCharm

**Libraries:** pandas, NumPy, Matplotlib, Pygame

**Area of Interest:** Generative AI, Data Analysis, Artificial Intelligence, Machine Learning, Deep Learning

## 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

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

**Reliance Foundation Undergraduate Scholar**