Yash Pinjarkar

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Skills

Programming Languages: Python, C++
Machine Learning & AI: TensorFlow, scikit-learn, Transformers
Generative AI Frameworks: LangChain, LangGraph, LangSmith, Hugging Face, MCP
Database Management: MySQL, Supabase, Chroma DB
Version Control: Git, GitHub

Work Experience

Astryx AI, Bengaluru Oct 2025 - Present

Software Engineer Intern

- **Designed and deployed** an Algo-Trading subgraph that automating strategy planning, document lookup, code generation, and Backtrader backtesting with DB-persisted session state.
- **Engineered** a LangGraph-based pipeline integrating targeted doc retrieval, vector search, code synthesis, and automated backtesting with normalized 14+ parameters and fallback data fetching via `yfinance`.
- **Delivered** one-click backtests generating 15+ KPIs (P&L, win rate, drawdown) and candlestick charts, consolidating 5+ manual steps into a single automated workflow.
- **Tech Stack:** Python, Backtrader, yfinance, Pandas, LangChain, LangGraph, LangSmith.

Education

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G) 2022 – 2026

CGPA: 8.1/10

B.Tech, Computer Science and Engineering
Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Computer Networks, Operating System, Compiler Design

Projects

- **Cursor 2D Animation** [GitHub] [Live Demo]:
  - Built a LangGraph DAG to generate executable Manim code.
  - Built a hybrid auto-debugging pipeline (Supabase Vector Store + Google embeddings + Tavily search) with sandboxed Manim render flow and LangSmith tracing.
  - Integrated video editor module to assemble rendered scenes into cohesive videos with minimal manual effort.
- **Chatbot-Web** [GitHub] [Live Demo]:
  - Developed a FastAPI-based chatbot with Retrieval-Augmented Generation (RAG) capabilities, integrating Google Generative AI models for embeddings and chat responses.
  - Implemented a Chroma vector database to store and retrieve chat history.
  - Deployed the chatbot on Hugging Face Spaces, utilizing Uvicorn as the ASGI server for running the Fast API.
- **Student Performance Predictor** [GitHub]:
  - Developed ML pipeline predicting student math scores using ensemble algorithms with hyperparameter tuning and model selection.
  - Created Flask web application with real-time predictions, enabling instant math performance forecasting.
  - Implemented production-ready system with custom logging, exception handling, and Docker deployment configuration for scalable ML model serving.

Achievements & Certifications

- Solved 210+ LeetCode problems, demonstrating strong problem-solving skills and proficiency in algorithmic thinking.
- Certificate of Oracle Cloud Infrastructure 2025 Certified Generative AI Professional.
- Certificate for completing *Applied AI: Getting Started with Hugging Face Transformers.*