Zhenyu Zhang

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Career Goal
Applied Machine Intelligence with solid experience in Machine learning, Data Analysis, software development, and **LLM**. Seeking roles in those and others **AI**-related fields.

Education
Northeastern University | **Master of Professional Study** in Applied Machine Intelligence | Boston, MA | April 2025 | GPA: 3.9/4.0
University of Connecticut | Bachelor of Art | Storrs, CT | May 2022

Skills
Languages & Tools: Python, SQL, Tableau
Frameworks & Libraries: TensorFlow, Pytorch, Scikit-learn, Pandas, NumPy, Seaborn, **Langchain**
Platforms & Tech: **Ollama**, **Hugging Face**

Professional Experience
Yangtze River Consulting Service LLC | *Ethical Consultant* | *Piscataway Township, NJ* | *Sep 2022 – Jul 2023*
- Built a QA system with Transformer, improving automated question answering accuracy.
- Built and deployed app for NGO to auto-publish messages via AWS, boosting engagement 20%.
- Led COVID-19 time series and survey data analysis, focusing on cleaning, EDA, and modeling.

Industry Experience
New York Technology & Management LLC | *Programming Manager* | *New York, NY* | *May 2025 – Present*
- Built React agent with **LangChain** tool-calling to automate internal tool, reducing manual work.
- Created a token counter in Ollama to efficiently track and manage token usage.
- Built multi-agent system for sales and after-sales, streamlining communication and task flow.
- Used Ollama to analyze files and generate PowerPoint reports, improving reporting workflows.
- Built a LangChain agent to automate Gmail email tracking and improve communication.
- Fine-tuned and quantized Hugging Face model on custom data for optimized, faster inference.

Projects
Flower Market Assistant
- Built flower **AI assistant** to answer inquiries, boosting online sales and reducing workload.
- Built Ollama-based chatbot with memory, vector DB(FAISS), with LangChain and Flask.
- Increased online orders by **10%** and reduced manual customer service workload by **40%**.
- Sourced Code available on GitHub: Flower-Market-Assistant

Crypto Predicted and Analysis with Vester AI
- Built a Crypto analysis tool with **transformer model and LLM** for Realtime market prediction.
- Collected Bitfinex API data, trained transformer model with historical data, added vector database.
- Using metal model to stack transformer model and sentiment model to get **84% accuracy**.