

Akshat Kulkarni

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EDUCATION

University of Illinois - Urbana Champaign
Bachelor of Science in CS + Physics, Minor in Math

Urbana, IL
Aug. 2020 – May 2025

EXPERIENCE

Associate Software Engineer / Co-Founder
Einstream AI

Nov. 2023 – Present
New York, NY

- A startup that aims to use AI to approach various financial industries at a dimensionless angle, focusing on investment, market analysis, and trading / providing business guidance as a corporate product.
- Developed an AI model trained with a vector database using vast amounts of financial data, uses an embedding algorithm specifically engineered by my partner and I to read financial data from eg. SEC filings, tables, and API data.
- Used research from LLM Conferences to develop ideas and networked with people involved in the vector database field to develop our database, neural network, workflow pipeline, and embedding model base.
- Created and presented comprehensive business plan detailing use of funds in testing, deployment, and managing employee expenses with an angel investor and some venture capitalists

Information Technology Technician
Gateway Community College

Sep. 2021 – Feb. 2023
New Haven, CT

- Assisted with management of large computer network and switch panels, monitored for cyber-threats and deployed policy with Azure
- Experienced with Kali Linux, networking; participated/tutored pen-testing and CTFs. Can create reverse exploits and have been able to secure blockchain transactions on an arbitrage trading bot I made.
- Educated students during a phishing scam and deployed security policy batch updates to prevent further data leaks
- Financial Skills = maintained inventory and invoices and of computers, classroom equipment, printers, and new IT related deliveries on campus

Pharmacy Technician
CVS Pharmacy

Jul. 2021 – Feb. 2023
Shelton, CT

- Took care of inventory and managed 93 medications' stock, ordering, returns, damages, and invoicing.
- Licensed to work as a technician, took the PTCB
- Dealt with pharmaceutical management tasks, inventory, insurance, and tech issues, working together with insurance companies, clients, and the pharmacy software to manage medication coverage and dispensing permissions.

PROJECTS

Arbitrage Trading Bot - LLM integrated and controlled | Python, davinci002, Langchain, Llaparse, OpenAI, Llamaindex
An AI bot that uses mass amounts of web data (forums, API, scraping, LLM calls) to analyze the most profitable trades to make through a Metamask wallet accounting for Gas fees and the total money invested.

As I use the bot it learns more of my investing style and will also make LLM suggestions about investments I might want to research and provides me with resources / info

Usually I set it to only arbitrage, either Forex or cryptocurrency, and then account for gas prices. It can trade stocks but I am still training it with stock data as organization of data is the key to an efficient program!

DreamStream | *Python, Datastax, Langchain*

Jan. 2024 – Present

- A generative AI that takes a stream of audio and generates live visuals and animations that sync with the music.
- Used metadata from music to mathematically map to visual metadata. Similar to how a copyright algorithm works, it maps transients and different mathematical values pulled from the music and uses a spectrograph and images associated with the artist or similar songs to generate live animated videos

TECHNICAL SKILLS

Languages: Java / Kotlin, Python, C/C++, SQL, Spanish, Hindi, Marathi

Skills: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, Langchain, Llama-Parse / Index, Software and Application Design, Pen-Testing, GEN AI