

Adit Agarwal

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Education

University of Illinois Urbana Champaign

Champaign, IL

Masters in Computer Science, BS in Computer Science & Advertising

Aug 2022 - May 2026

GPA: 3.85 - 2x Dean's List + James Scholar Coursework: Algorithms, Distributed Systems, Machine Learning, Text Information Systems, Data Structures, Linear Algebra, Systems Programming, Algorithmic HF Trading

Experience

AI/ML Engineering Intern – Droisys (account360.ai) Las Vegas, USA

June 2024- Aug 2024

- Developed AI based features for Account360, a CRM tool used by major alcohol distributors/suppliers.
- Built a tool for automated **generation of customized advertising creatives**. Fine tuned (LoRA) a **text to image** latent diffusion model and developed a streamlined UX for designers. The tool converts text mentioning the brand name to **an immediately usable (one shot) advertising creative** (image) optimized for the beverage industry, and even supports various aspect ratios for different media platforms.
- Engineered a **RAG based chatbot** to enable simple **data analytics** and provide sales **recommendations** using LLM powered **code generation, DB query generation, and vector search** on MongoDB. The chatbot integrates into beverage sales reps' **app based workflows**, allowing them to surface **metrics and recommendations** backed by image data (stockist shelves) and sales data.
- Used Python, React, ControlNet, Stable Diffusion (SD3-medium), MongoDB, FAISS, OpenCV, YOLOv8

Software Engineering Intern – Asymtos Co-Distributed Cloud (aysmtos.com)

June 2023 – Aug 2023

- Built **monitoring tools and interactive dashboards for edge nodes on a distributed cloud system**. Used **React, GoLang**, and **Python** to implement heartbeat detection, metric collection, plot creation, and more.

Undergraduate Research Assistant

Sep. 2021 – Present

University of Illinois Urbana Champaign

Champaign, IL

- Researching **biases in AI models** like ChatGPT, BardAI, DallE and Midjourney under Prof Hari Sundaram
- Co-authoring a research paper on smart message framing that compels a reader to take action. **Developed web pages, graphics, and persuasive messages, and analyzed large datasets** for the same.

Projects

Generative AI Quizzing Platform | Python, React, langchain, FAISS, OpenAI

- Developed a Generative AI based quizzing system as a study aid for students. It allows users to upload a PDF of desired text for question generation based on user queries using ChatGPT API.
- Utilized **langchain** for text vectorization and **FAISS** for document retrieval.
- Implemented an interactive frontend using **React**.

COVID Vaccine Twitter Bots (India) (linktr.ee/covidvaxind) | Python, Twitter API, AWS, APISetu

- Programmed Twitter bots that autonomously tweet about real-time COVID vaccine availability in 6 major Indian cities by scraping government sources. Updates with new availability every minute.
- Received over **2 million** impressions and over **2000 followers**

Activities

Chair of Operations- Reflections Projections, UIUC

Feb 2023 – Present

- Managed logistics, caterers, budget oversight, and career fairs for the Midwest's largest tech conference with over 1000 students attending, 15 companies and 10 speakers.

Technical Skills

Languages: Python, C++, C Java, JavaScript, Design- HTML & CSS, Golang, PHP, Git, Go

Other Technologies: OpenCV, LoRA, Transformers, Flask, Flutter, AWS, React, Postgres, PyTorch, Tensorflow