

GAJENDAR TIWARI

(513) 488-9062 | GTiwari.com | tiwarigr@mail.uc.edu | [linkedin.com/in/gajendartiwari](https://www.linkedin.com/in/gajendartiwari) | github.com/GajendarTiwari

Education

University of Cincinnati

Masters of Engineering in Computer Science

Aug 2024 – Apr 2026

Malla Reddy Engineering College

Bachelor of Technology in Data Science

Aug 2020 – Jun 2024

Internship Simulations

AWS(Forage)

Software Architect

Jul 2025

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- Architected scalable AWS solutions with Elastic Beanstalk, RDS, S3, and CI/CD, cutting downtime by 90% and deployment speed.

Niltech Network

Data Analyst Intern

Jun 2023 – Sep 2023

Hyderabad, TS

- Improved system performance by 20% using scalable Python, Scala solutions with secure, optimised MySQL-backed workflows.

Projects

AI Meeting Assistant / Python, Selenium, OpenAI Whisper, SMTP, GeminiAPI, OBS



- Automated Google Meet** recordings and real-time transcription using **Selenium**, **OBS**, and **Whisper**, reducing manual effort by over **30%**
- Integrated **Gemini 1.5 Flash** to generate intelligent summaries and tasks, boosting meeting **productivity** by **25%** and cutting follow-up time by **30%**.
- Built a modular **AI assistant** architecture with **Agents**, **Services**, and **Controllers**, enabling **20–60% productivity** gains and enterprise-grade scalability.

UC AI SearchBot / Gemini LLM, Google Generative AI, HuggingFace Embeddings, Python, FastAPI



- Constructed FastAPI-LangChain chatbot with Gemini 1.5 Flash & ChromaDB**, handling 500+ daily university queries in <512 MiB memory.
- Implemented RAG pipeline with HuggingFace embeddings & custom prompts**, raising retrieval accuracy from ~65% to over 90% and reducing hallucinations.
- Orchestrated full-stack across Render, Railway & Vercel**, optimising containers for ≤4 GB RAM free tiers to ensure 99.9% uptime and ~40% reduced server memory footprint.

Retail Analytics Dashboard / Python, SQL, Pandas, Numpy, Streamlit, GCP, Plotly



- Delivered 87%+ accurate **CLV & churn predictions** on **400** Kroger data via Random Forest & Apriori with a Streamlit Cloud dashboard.
- Increased cross-sell by 30% by applying **market basket analysis** and visualising trends for targeted customer segments.
- Cut manual analysis** time by ~40% by automating SQLAlchemy data pipelines, preprocessing, and model inference in a Git-Hub–deployed Streamlit app.

Tax-Bot Assistant / Langchain, GoogleGemini API, ChromaDB, Python, Flask



- Devised **Gemini 1.5 Flash** chatbot with **Flask** and **ChromaDB**, boosting income tax response accuracy by 90% over **PDF**-based systems.
- Deployed voice-enabled chatbot with 5-star feedback UI **on Render**, achieving **60%+** user satisfaction and 99.9% uptime.
- Reduced server costs by ~35%** by debugging deployment issues and optimising dependencies under **512 MB memory limits**.

Skills

Languages: Python, Java, JavaScript, TypeScript, Bash, HTML

Frameworks & Libraries: Scikit-learn, Numpy, Pandas, Matplotlib, Plotly Express, Flask, Tailwind CSS, Spring Boot

APIs & Integration: REST, Gemini API, OpenAI, SMTP, LangChain, HuggingFace, Automation, RAG, CrewAI.

Cloud & DevOps: AWS (EC2, Lambda, S3), Azure, Docker, Kubernetes, Terraform, Render, Vercel

Databases: PostgreSQL, MySQL, ChromaDB, SQLAlchemy,

Tools & Platforms: Git, Postman, Figma, PowerBI, Tableau, Selenium, Scipy, Google AI studio, OpenAI whisper

Certifications

IBM Data Science – Coursera

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Microsoft Certified: Azure Fundamentals

[View Certificate](#)

MTA: Introduction to Programming Using Python

[View Certificate](#)

GoldmanSachs Software Engineering Simulation

[View Certificate](#)

Programming In Java NPTEL

[View Certificate](#)