

Daksh Mehta

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SUMMARY

Aspiring Data Analyst and Software Engineer with internship experience as a Data Engineer, skilled in designing automated workflows and developing Python scripts for data extraction and analysis. Eager to leverage technical skills and teamwork to contribute to innovative software solutions.

EDUCATION

Michigan State University, College of Engineering

Bachelor of Science, Computer Science

Agentic AI, Machine Learning, Database Management, Data Structures and Algorithms

May 2026

GPA: 3.84

EXPERIENCE

iCustomer (Python (Pandas, NumPy, API), PostgreSQL) | Data Engineer Intern

May 2025 – Aug 2025

- Designed and implemented automated workflows for data extraction and integration using HubSpot, Postgres and Airbyte.
- Developed robust Python scripts for web scraping, API interaction and cleaning large datasets (17M+ rows), enabling comprehensive analytics and visualization of company and contact data
- Build end to end dashboards and visual reports using Pandas and Matplotlib to analyze company size distribution communicating complex demographic details using clear data visualizations
- Built a tool to scrape company information from search engines using Selenium and Pyppeteer, adding missing details and improving data quality

PROJECTS

Agentic AI Website (Python, PostgreSQL, Flask, Docker) | Student

September 2025

- Developed a full-stack AI-native web application using Vue.js, Flask, PostgreSQL (pgvector) and Docker, integrating OpenAI's GPT models to build an intelligent, multi-agent conversational system.
- Implemented semantic search and ReAct reasoning workflows by generating vector embeddings with pgvector and applying chain-of-thought logic for context aware database queries and responses.
- Developed safety and validation mechanisms using Flask sessions and Socket.IO to confirm risky AI operations, ensuring secure real-time human oversight of automated database operations.

Neural Network (Python) | Student

October 2025

- Built a fully connected neural network (MLP) from scratch using NumPy, implementing forward propagation, backpropagation, mini-batch gradient descent, ReLU/softmax activations, and cross-entropy loss to classify MNIST digits.
- Designed and executed the full ML pipeline, including dataset loading, preprocessing (normalization, flattening), batching, training loops, and evaluation, achieving an F1 score of 0.9814 on Kaggle.
- Ranked 7th out of 100 students on the course leaderboard by delivering one of the highest-scoring models and producing a fully reproducible Kaggle Notebook submission

Ray Tracing (C++) | Student

April 2025

- Implemented a recursive ray tracing renderer in C++ using a scene graphs and custom OpenGL pipelines.
- Collaborated with classmates to integrate components and debug rendering issues using effective communication and teamwork.

LEADERSHIP & VOLUNTEER ACTIVITY

Michigan State University Library, Digital Scholarship Lab

Sep 2023 - Present

Student Tech Assistant

- Trained new library employees in various technologies, including VR and specialized projection rooms through effective verbal communication
- Diagnosed and resolved computer malfunctions by effectively applying problem-solving skills

TECHNICAL SKILLS

- **Proficient:** Python, C++, SQL, Linux, Excel, Microsoft Office Suite, Google Docs Suite
- **Intermediate:** JavaScript (Vue-js), Unity, C# (Unity), HTML & CSS