

Dallas Blowers

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PROFESSIONAL SUMMARY

Data Analyst and Statistician with over 4 years of experience in healthcare analytics, now pivoting to AI/ML Engineering. Leveraged an M.S. in Applied Statistics to build practical solutions involving NLP, Large Language Models (LLMs), and automation. Proven track record of optimizing data pipelines and delivering proof-of-concept AI tools for business clients. Eager to apply technical expertise in Generative AI and cloud architectures to support innovation at the University of Pittsburgh Cloud Innovation Center.

EDUCATION

University of Pittsburgh
Master of Science in Biomedical Engineering

Pittsburgh, PA
Expected May 2027

Michigan Technological University
Master of Science in Applied Statistics
Cumulative GPA: 4.0 / 4.0

Houghton, MI
December 2021

TECHNICAL PROJECTS

Generative AI IT Training Module Prototype (Client Project)

Remote

Tech Stack: Python, Streamlit, OpenAI API, Prompt Engineering

- Partnered with an external IT vendor to modernize annual training materials by developing an interactive quiz generator.
- Built a frontend using **Streamlit** integrated with the **OpenAI API** to generate scenario-based questions and answers dynamically.
- Implemented prompt engineering techniques to ensure output strictly adhered to the client's tone and technical accuracy standards, including image generation for visual engagement.

Multi-Agent Productivity Assistant

Independent Project

Tech Stack: Python, OpenAI Agents SDK, APIs

- Engineered a multi-agent system utilizing the **OpenAI Agents SDK** to coordinate complex personal workflows.
- Designed an orchestration layer where autonomous agents could plan tasks and execute API calls, simulating a "swarm" architecture for problem-solving.
- Demonstrated proficiency in managing agent state, context windows, and inter-agent communication.

NLP Outcome Classification Pilot

Healthy Alliance

Tech Stack: Python, Scikit-learn, Pandas, SQL

- Developed a supervised classification model to process unstructured free-text service provider notes, converting them into discrete outcome labels for reporting.
- Successfully tagged outcomes for internal review, significantly reducing manual effort for the Quality Assurance team and improving data coverage, resulting in changed approach for future case follow-up.

TECHNICAL SKILLS

Languages: Python, SQL [T-SQL], R, DAX, \LaTeX
AI/ML Frameworks: OpenAI API, OpenAI Agents SDK, Scikit-learn, Pandas, NumPy, Streamlit
Cloud & Data Ops: Azure Data Factory, Docker, ETL Pipelines, Data Governance, Reporting Automation
Tools & Platforms: Power BI, SSMS, Power Automate, Excel (Advanced), Microsoft Lists

PROFESSIONAL EXPERIENCE

Healthy Alliance
Senior Data Analyst

Remote, NY
April 2024 – Present

- Developed SQL-based quality assurance processes for 40+ tables across 10 sources, reducing daily data load times by 50%.
- Designed data logic and outreach list workflows for 45,000+ NYHER-eligible members, doubling partner screenings within one month.
- Documented and resolved 20+ vendor data quality issues, improving confidence in internal reporting and accelerating critical data fixes.

Data Analyst

October 2023 – April 2024

- Cataloged 100+ tables across three databases to support governance, retention, and reporting efficiency.
- Developed Power BI paginated reports for daily and weekly senior leadership updates.
- Automated team updates using Power Automate and Microsoft Lists to track daily stand-up items and blockers.

Jefferson Community College
Adjunct Instructor – Statistics

Watertown, NY
October 2022 – Present

- Teach core statistical concepts to 40+ non-STEM students, emphasizing real-world application and ethical data interpretation.
- Design activities demonstrating the appropriate use of generative AI tools in coursework and data analysis.

Credo Community Center
Data Analyst

Watertown, NY
January 2022 – September 2023

- Used SQL, Excel, and R/Python to interpret outcome data for 1,000+ patients, providing insights on treatment effectiveness.
- Recommended data integrity and compliance policies that earned praise for data maturity during CARF reaccreditation.
- Authored governance documentation, including dashboard metrics libraries and a business glossary for internal use.