

Sophia Kurz

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EDUCATION

Carnegie Mellon University

May 2025

Master of Science in Data Analytics for Science

Relevant Coursework: Matrix Calculations, Numerical Linear Algebra, Statistical Modeling, Machine Learning, Large-Scale Computing, Advanced Natural Language Processing, Visualization, Neural Networks and Deep Learning.

The University of Texas at Austin

May 2024

Bachelor of Science in Informatics (Human-Centered Data Science), Bachelor of Arts in Journalism

Relevant Coursework: Data Engineering, Probability, Differential and Integral Calculus.

EXPERIENCE

Data Analyst

July 2025 – Present

Cava

Washington, DC

- Delivered insights from large-scale data analysis to inform staffing, compliance, and performance decisions.
- Integrated statistical and predictive modeling into reporting workflows, enhancing decision accuracy.
- Automated recurring data processes, improving operational efficiency by 40%.

Data Science Fellow

April 2023 – Present

Computational Media Lab

Austin, TX

- Built machine learning models using Python and R to assess social media impact during hurricanes.
- Applied natural language processing techniques to analyze sentiment and trends in crisis communication.
- Published peer-reviewed paper in [PLOS One](#).

Data Science Capstone Researcher

January 2025 – May 2025

Reddit Inc.

Pittsburgh, PA

- Capstone project in conjunction with Carnegie Mellon University.
- Analyzed BigQuery job logs using Python to identify inefficiencies and optimize costs.
- Applied machine learning and predictive analytics to forecast query resource usage.
- Identified over 100,000 inefficiencies in the system.

Data Science and Machine Learning Intern

November 2024 – January 2025

Mety Technology

Remote

- Designed and implemented an AI chatbot using NLP models for personalized health and wellness recommendations.
- Developed a memory retention system using Python to track user interactions and progress toward goals.
- Achieved accuracy of 96%

Research Assistant

August 2022 – December 2022

Artificial Intelligence Health Lab

Austin, TX

- Contributed to the development of an Explainable AI dashboard for healthcare risk analysis using Python.
 - Conducted exploratory data analysis on health metrics and presented results to stakeholders.
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SKILLS

Programming: Python, R, SQL, Linux

Machine Learning: NLP, LLMs, Image Classification, Computer Vision, Predictive Modelling

Libraries: TensorFlow, Scikit-Learn, Pandas, Spark, PyTorch, Keras, Numpy

Data Visualization: Matplotlib, Seaborn, ggplot2, Tableau, Power BI