Sam Fuchs

Data scientist and fast learner excited about new technologies seeking challenges in machine learning and data interaction

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Experience

Delta Dental — Data Engineer Oct 2025–Dec 2025
Sacramento, CA

Collaborated with data architects, application development teams, and data governance to build and test data interfaces between applications, data warehouses, and third-party data sources on cloud and on-prem platforms. Used ETL tools to develop APIs and pipelines to meet business and data requirements throughout the enterprise, including app-to-app integration, data management platforms, and end-user data access tools.

Optimove — Customer Data Engineer Aug 2022–Jun 2024
New York, NY

Built data pipelines in Snowflake connecting 30–50 client databases with CRM tools, communicating directly with stakeholders to meet their needs. Applied supervised and unsupervised learning techniques to fit models to client use cases. Built automations in Python to streamline internal processes and accelerate development. Implemented ETL tools to connect databases including AWS and GCP.

Cornell Data Science — Senior Advisor, Insights Team Feb 2019–Jun 2022
Ithaca, NY

Led teams of students to build projects that provide insight into complex systems using machine learning and data science tools. Each project involved exploratory data analysis, developing machine learning algorithms, and designing intuitive, interactive front-end interfaces to meet user needs.

Technical Skills

Languages: Python • SQL • JavaScript • TypeScript • HTML • CSS • C# • Julia • Java • R • Bash
Tools: Snowflake • Apache Airflow • PyTorch • TensorFlow • Matillion • NumPy • Git • HuggingFace • GCP • Flask • AWS • GCP • LLM • D3.js • REST APIs • React.js • Three.js • Tableau • Jupyter Notebook
Skills: Collaboration • Leadership • Communication • Documentation • Adaptability

Projects

samcf.com/projects

SEKI Backcountry Research Summer 2024

Gathered robust data within an interdisciplinary research team in a backcountry setting in Sequoia and King's Canyon National Parks. Rigorously documented effects of boring beetles and White Pine Blister Rot on endangered indigenous Sierra Nevada pines. Recommended data analysis strategies and statistical techniques for extracting useful insights from a sparse data environment.

MTA Visualization Spring 2025

Implemented a 3-dimensional, live, interactive visualization of all lines of the New York MTA system. Optimized performance of THREE.js libraries to enable smooth interaction through backend updates. Decoded and integrated an obtuse REST API. Built a TypeScript server backend to cache data between MTA servers and clients to reduce data overhead.

ProjectX Spring 2021

Applied machine learning techniques to minimize ride-share vehicle emissions by improving routing, using geospatial, temporal, and meteorological features. Along with three teammates, helped to develop an LSTM in TensorFlow that projected a 10.6% reduction in emissions over a 6-month period. Awarded first prize in the “Energy” category and presented findings to teams and sponsors.

Education

Cornell University, College of Computing & Information Science May 2022
Ithaca, NY

B.A. Information Science (May 2022), GPA 3.6/4.0

Coursework: Introduction to Machine Learning • Data-Driven Web Apps • Natural Language Processing • Computer Vision • Object-Oriented Programming & Data Structures • Networks • Ethics & Policy in Data Science • Intermediate Data Science • Designing Tech for Social Impact