# Sam Fuchs

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

samcf.com
hire@samcf.com
linkedin.com/in/samcfuchs
860-391-5940
2647 8th Avenue #5B, New York NY

## EXPERIENCE

**Optimove,** *Customer Data Engineer*

Aug 2022–
Jun 2024
New York, NY

Build data pipelines in Snowflake connecting 30-50 client databases with respective CRM tools, communicating directly with stakeholders to meet their needs. Apply supervised and unsupervised learning techniques to fit models to client uses. Build automations in Python to streamline internal processes and accelerate development. Use ETL tools such as Matillion to connect databases including AWS and GCP.

**Cornell Data Science,** *Senior Advisor, Insights Team*

Feb 2019–
Jun 2022
Ithaca, NY

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

## TECHNICAL SKILLS

**Languages:** Python • SQL • C# • JavaScript • TypeScript • Julia • Java • HTML • CSS • R

**Tools:** Snowflake • Apache Airflow • D3.js • REST APIs • PyTorch • TensorFlow • React.js • AWS • Flask • Three.js • MS SQL Server • Tableau • Git • Linux • Jupyter Notebook • Bash • MS Office

**Skills:** Collaboration • Leadership • Communication • Documentation • Adaptability

## EXAMPLE PROJECTS

### ProjectX

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.

### Pathway

Helps Cornell students discover and plan their academic futures using an interactive interface to communicate popular courses and sequences. Student behavior is described by a network-based model built in Go, which is queried by a user interface designed with D3.js and Bootstrap to surface useful insights.

### NFL Databowl

Predicts the outcomes of NFL rushing plays using a convolutional neural net trained on NFL Next Gen stats. Estimates likely yardage gained in a probabilistic distribution. Built an environment to train and test models remotely. Achieved scores in the top 5% on the Kaggle leaderboard.

## EDUCATION

**Cornell University,** College of Computing & Information Science
*B.A. Information Science, (3.6/4.0)*

May 2022
Ithaca, NY

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