

ELLIOTT EVANS

Data Scientist | Machine Learning Engineer

📞 443-676-7617

@ evanselliott1@gmail.com

📍 Chicago, IL

🌐 elliottdevans.github.io

🌐 linkedin.com/in/elliott-evans

PROFILE

- **Data science manager** with 8+ years of experience designing, training, and deploying large-scale ML systems in production
- Proven record building end-to-end **ML pipelines** in production using **Kubeflow, H2O.ai, Kubernetes, and PySpark**
- Experienced in developing deep learning models for **sequence modeling and classification** with **PyTorch, Lightning, and LitData**
- Hold an **M.S. in Applied Statistics** and completing a second **M.S. in Computer Science (Artificial Intelligence specialization)**

EXPERIENCE

Capital One

Credit Card Fraud Data Science Team

Data Science Manager

- 📅 July 2025 – Present 📍 Chicago, IL
- Implemented **Ray Tune MLOps** for sequence model **hyperparam optimization**
- Reduced Fraud Pipeline run-time by **40%** via **Spark optimization**
- Led Fraud Onsite; ran **deep learning transformer modeling workshop**
- Led governance of External Fraud Model; drove **significant lift** in fraud captured

Principal Data Scientist

- 📅 August 2021 – July 2025
- Architected sequence model pipeline (**PyTorch, LitData**, 700M+ auths at scale)
- Led **KubeFlow Pipelines migration** of Core Fraud Model (300+ days train data)
- Achieved **100x training speed-up** by resolving **GPU inefficiencies**
- Presented **Neural Net Challenger Model** research at internal DS Conference

Civis Analytics

Political Applied Data Science Team

Staff Data Scientist

- 📅 Dec 2020 – May 2021 📍 Chicago, IL
- Built multi-output **Neural Network** for **issue modeling** using **MC dropout**
- Developed **Keras pipeline** with custom loss for **missing data, class weighting**
- Developed **TensorFlow pipeline** for chamber-level **resource allocation**

Senior Data Scientist

- 📅 Jul 2018 – Dec 2020
- Prototyped **TensorFlow model** for **identity resolution** across voter records
- Optimized **Bayesian election forecasts (Stan)** for speed and calibration
- Created custom **sklearn estimator** to perform iterative imputation

US Census Bureau

Education, Demographic, Geo Estimates Branch

Survey Statistician Intern

- 📅 June 2017 – August 2017 📍 Suitland, MD
- Flagged **disclosure risks** in spatial demographic models for public schools
- Designed **Bayesian kriging** analysis on income-to-poverty ratios for evaluation

OptionsHouse by E*TRADE

Business Intelligence Team

Junior Business Intelligence Analyst

- 📅 June 2015 – July 2016 📍 Chicago, IL
- Built **C5.0 decision tree model** to predict user value using **SQL trading data**
- Analyzed customer segments to identify **high-value trading patterns**

EDUCATION

Georgia Institute of Technology

M.S., Computer Science

- 📅 IN PROGRESS 📍 Atlanta, GA
- Artificial Intelligence specialization
- GPA: 4.0/4.0

University of Michigan

M.S., Applied Statistics

- 📅 April 2018 📍 Ann Arbor, MI
- GPA: 4.0/4.0
- Outstanding First Year Masters Student Award
- Teaching Assistant, Introduction to Statistics

Northwestern University

B.A., Statistics | B.A., Mathematics

Minor, Computer Science

- 📅 June 2015 📍 Evanston, IL
- Major GPA (Statistics): 3.9/4.0
- Honors Mathematics Program

TECHNICAL STACK

Tools and frameworks used in daily production work

Core

Python PyTorch Keras sklearn H2O.ai
TensorFlow*

Data & Pipelines

PySpark SQL Snowflake Databricks
LitData Jupyter

Infrastructure

Docker Kubernetes Kubeflow S3

Versioning & DevOps

Git CI/CD Ray Tune

*Certified TensorFlow Developer (Google TensorFlow Certificate)

MENTORSHIP & OUTREACH

MAC Speaker: Gave multiple talks at Capital One's internal Modeling & Analytics Conference on sequence modeling and MLOps.

People Management: Managed and mentored two direct reports at Civis Analytics.

Recruiting: Interviewed and graded DS candidates at Civis & Capital One; represented Capital One at ICML.