

# ELLIOTT EVANS

## Data Scientist | Machine Learning Engineer

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📍 Chicago, IL

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## 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 sequence 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.