



Timothy York

Associate Machine Learning Engineer

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SUMMARY

Associate Machine Learning Engineer with nearly four years applying Python, PyTorch, TensorFlow, SQL, NLP, and **model evaluation** methods across trust and safety, content quality, and data products. Builds reproducible **ML pipelines**, monitoring dashboards, and **human-in-the-loop** review tools that help policy specialists identify risky activity consistently. Explores LLM and GenAI workflows using retrieval, structured prompts, guardrails, and multi-step orchestration, with close attention to transparency, auditability, and responsible AI. Converts experiments into clear documentation for engineering, **data science**, policy, and product partners. Brings practical judgment, steady communication, and genuine interest in making digital communities safer and more inclusive.

EXPERIENCE

Machine Learning Engineer

SignalHarbor Labs 📅 January 2025 - Present 📍 Columbus, Ohio

Owns trust and safety ML initiatives spanning text classification, ranking, monitoring, GenAI review support, and audit-ready delivery. Partners with policy, product, data science, and engineering groups across production workflows.

- Built **PyTorch** classifiers for spam and harassment signals across 18 million weekly records.
- Created **Python** and **SQL** feature pipelines with validation, versioning, and reproducible training workflows.
- Developed monitoring views for precision, recall, drift, review volume, and threshold changes.
- Prototyped retrieval-augmented **GenAI** support with citations, prompt controls, and restricted-action guardrails.
- Compared PyTorch and **TensorFlow** experiments against human labels for safer operating thresholds.
- Documented **model cards**, experiment decisions, limitations, and audit artifacts for cross-functional handoffs

Machine Learning Engineer

CivicPattern Analytics 📅 July 2023 - December 2024 📍 Raleigh, North Carolina

Delivered **NLP** and data science solutions for digital community services, guiding **model evaluation**, scheduled scoring, compliance reporting, and staged deployment decisions. Worked closely with policy analysts and technical stakeholders.

- Implemented Python NLP pipelines that routed high-risk user reports into specialized review queues.
- Consolidated event, text, and reviewer data with SQL, pandas, provenance, and privacy controls.
- Evaluated **TensorFlow** and **PyTorch** baselines using confusion matrices, calibration, and stratified validation.
- Automated scheduled scoring and performance reporting for weekly quality and **compliance** reviews.
- Translated ambiguous **policy** guidance into labeled examples, escalation rules, and acceptance criteria.
- Presented residual risks and model tradeoffs, supporting a staged deployment decision

Data Science Analyst

BlueOak Data Cooperative 📅 September 2022 - June 2023 📍 Durham, North Carolina

Supported supervised learning studies through data preparation, exploratory NLP analysis, baseline modeling, reviewer tooling, and responsible-use assessment. Maintained clear records that helped senior scientists move from inquiry toward reliable evaluation.

- Prepared customer-support datasets with SQL and **Python** for supervised learning studies.
- Built exploratory notebooks that surfaced abuse-report language patterns for NLP feature design.

STRENGTHS

- 🛡️ **Trust and safety judgment**
During policy reviews, translated uncertain signals into testable labels and safer thresholds; partners became a go-to sounding board.
- 🔍 **Evidence-led evaluation**
Built error reviews around human labels and calibration checks; one careful comparison prevented an unsupported production launch.
- 🗨️ **Cross-functional clarity**
Explained model tradeoffs in plain language for policy and product partners, earning confidence during staged deployment decisions.
- 💡 **Practical GenAI design**
Tested retrieval, citations, prompts, and guardrails in a reviewer workflow; useful limits mattered as much as useful output.
- ⚙️ **Reliable delivery habits**
Versioned datasets, documented experiments, and monitored drift across releases; teammates relied on clean handoffs when pressure rose.

SKILLS

Machine learning Python PyTorch

TensorFlow SQL NLP

Model evaluation GenAI workflows

LLM orchestration

Data exploration ML pipelines

Cross-functional work

Technical documentation

Spanish Intermediate

- Partnership on AI community participant; supports responsible AI, transparency, and inclusive technology discussions.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST