

Keith Steward, Ph.D.

Boston, MA | 508-318-8035 | keith.steward@gmail.com

[LinkedIn](#) | IntelligentDataWorks.ai | [IDW LinkedIn](#)

September 24, 2026

Capital One Hiring Team

Re: Lead Machine Learning Engineer

Dear Capital One Hiring Team,

Building production AI services across inference, retrieval, evaluation, safety, and scalable cloud delivery closely matches my hands-on engineering work.

At Intelligent DataWorks, I built the AssistX core and the first 80% of its HR application using Python, FastAPI, LLMs, RAG, agents, PostgreSQL/PGVector, APIs, Docker, AWS, and CDK. The platform supports 70+ automations across more than 20 workflows, accelerates selected work by up to 50x, and sustains 99.9% availability.

I implemented structural and LLM-as-judge evaluation, synthetic-data testing, guardrails, prompt-injection screening, model routing, observability, security, cost controls, release management, and incident practices. At AWS, I advised more than 200 enterprises on AI, ML, data, and cloud architectures. At MassMutual, I worked on model transparency, bias, drift, monitoring, human oversight, auditability, and Responsible AI.

My strongest evidence is in production inference, retrieval, agents, evaluation, TensorFlow/Spark, and platform optimization rather than foundation-model fine-tuning or PyTorch. Intelligent DataWorks completed its planned operating transition in October 2026, and I am seeking a long-term hands-on AI engineering role. I would welcome a discussion about building reliable AI-powered risk systems in Cambridge.

Sincerely,

Keith Steward, Ph.D.