

# LAST

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## MACHINE LEARNING ENGINEER

### SUMMARY

Machine Learning Engineer with 5+ years' experience deploying LLMs, building scalable data pipelines, and delivering production-grade ML solutions. Increased model accuracy by **18%**, reduced inference latency by **35%**, and fine-tuned LLMs on **100M+ tokens** for enterprise-scale adoption. Proven expertise in Responsible AI, cost optimization (**\$400K annual savings**), and customer-centric model quality improvements, aligned to Microsoft's mission of empowering users through innovation.

### WORK EXPERIENCE

#### Machine Learning Engineer | XYZ Company

*Anytown, CA, March 2014 - Present*

- Increased model accuracy by **18%** and reduced latency by **35%** across 12+ production models, supporting **10M+ daily queries** for consumer applications.
- Built scalable pipelines processing **2TB+ daily logs**, cutting data processing time from **8h to 2h**, enabling real-time analytics.
- Fine-tuned LLMs on **100M+ tokens**, improving task-specific performance by **12%** and reducing validation time by **40%** with automated evaluation pipelines.
- Designed classifiers that reduced false positives by **22%**, boosting user trust and driving a **19% increase** in engagement.
- Implemented Responsible AI frameworks that reduced model bias by **30%**, ensuring ethical deployment across diverse demographics.

#### Data Scientist | XYZ Company

*Anytown, CA, June 2012 - Jan 2014*

- Curated **50M+ user interactions** into high-quality datasets, improving classifier F1 scores by **15%**.
- Optimized GPU resource allocation, cutting annual compute spend by **\$400K** while maintaining training throughput.
- Delivered a **real-time inference pipeline (<50ms latency)** handling **5M+ daily API calls**, ensuring seamless integration with end-user products.
- Collaborated with **15+ cross-functional stakeholders** (engineers, PMs, researchers) to align ML initiatives with product goals.
- Co-authored 2 peer-reviewed papers (ACL, NeurIPS workshops) on LLM evaluation, strengthening research credibility.

### SKILLS

- Technical:** Python, PyTorch, TensorFlow, Scikit-learn, SQL, Azure ML, AWS Sagemaker, Hugging Face, MLflow, Spark, Kubernetes, REST APIs
- ML/AI Expertise:** Large Language Models (LLMs), Fine-tuning, Prompt Engineering, Classifier Development, Recommender Systems, Responsible AI, Model Evaluation, Data Pipelines
- Soft Skills:** Cross-functional collaboration, Technical communication, Agile execution, Research translation, Customer-centric innovation

### EDUCATION

- Bachelor of Science in Computer Science, XYZ University** 2018

### CERTIFICATIONS

- AWS Certified Machine Learning – Specialty (2022)**
- Microsoft Azure AI Engineer Associate (2021)**