Emily Watson

ML Research Lead

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LinkedIn   GitHub   LeetCode   Portfolio

PROFESSIONAL SUMMARY

ML researcher with expertise in reinforcement learning and large language models. Published 5 papers at top-tier venues including NeurIPS and ICML. PhD from Oxford.

TECHNICAL SKILLS

Languages: Python, C++, Julia

Frameworks: PyTorch, JAX, TensorFlow, Flax

Databases: PostgreSQL, Neo4j, Pinecone

Cloud: GCP, Azure

Tools: CUDA, Weights & Biases, Ray, Kubernetes

PROFESSIONAL EXPERIENCE

Research Engineer   2022-09 - present
DeepMind

Developing large language models for reasoning tasks. Co-authored paper on chain-of-thought prompting accepted at NeurIPS 2024.

Technologies: Python, JAX, PyTorch, C++, CUDA, GCP

Research Intern   2021-06 - 2022-08
OpenAI

Contributed to RLHF training infrastructure. Implemented distributed training optimizations reducing training time by 30%.

Technologies: Python, PyTorch, TensorFlow, Kubernetes, Azure

PROJECTS

TinyLLM (open-source)   2023-06 - 2023-12 · 7 months · GitHub

Educational implementation of transformer architecture from scratch. 5k GitHub stars, used in university courses.

Technologies: Python, JAX, Flax, TPU

RL Playground (academic)   2020-09 - 2021-03 · 7 months · GitHub

PhD research codebase for multi-agent reinforcement learning experiments.

Technologies: Python, PyTorch, Gymnasium, Weights & Biases

EDUCATION

PhD in Machine Learning
Oxford University, 2021 | GPA: 3.95

CERTIFICATIONS

TensorFlow Developer Certificate

Google Cloud ML Engineer