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MODEL EVALUATION AND THREAT RESEARCH (METR) | VISITING FELLOWSHIP

2024 (Ongoing) via ML Alignment and Theory Scholars (MATS) 6.0

• Developing evaluations and tooling to detect AI Research Capabilities as part of Wijk Hjalmar's team

• Developing experimental tool to build evaluations directly from research papers

INDEPENDENT PROJECTS

2024: Delphi - Evals Technical Lead

- Led team of software engineers and researchers to develop infrastructure for training and evaluating small, reproducible language models
- Rewrote model training pipeline for significantly improved reliability, speed, and configurability
- 2023 Present: Rational Animations Scriptwriter
 - Writing, editing, and consulting on scripts about Al Alignment, Effective Altruism, and related topics.
- Over one million views on scripted videos as of March 2024

TEMPLE CAPITAL | Quantitative Investing Strategies

2022: ML Engineering Consultant

- Optimized custom in-house investment analysis engine
- Expanded support for synthetic assets

- Built CI/CD Pipeline from Scratch
- Established coding style and formatting guidelines

BLUE ROSE RESEARCH | Public Opinion Modeling & Research

2021: Senior Machine Learning Engineer

• Optimized TF-Probability Variational Inference pipelines inferring public opinion distributions given noisy data

Optimized database queries to speed up time-consuming operations

META (FACEBOOK) | ML Engineering for Hate Speech

2017 - 2020: Software Engineer - Machine Learning & Infrastructure

- Developed Facebook's first proactive hate speech classifiers in English, French, Arabic, and Portuguese
- Optimized models to run billions of times per day
- Integrated computer vision and multi-lingual signals to improve performance
- Identified and addressed novel issues in existing training pipeline infra causing unintended classifier behavior
- Trained and deployed model that accidentally removed the Declaration of Independence from Facebook on July 4th, 2018. Whoops.
- Built volume-adjusted thresholding system to optimize experts' time, maximizing per-sample training value while prioritizing high-impact content
- Developed stratified offline datasets to enable rapid testing and iteration.
- Built fully-automated classifier deployment pipeline capable of daily updates across multiple languages with A/B tested pilot models
- Surfaced extremely surprising issues impacting user well-being

LENDINGROBOT | PEER LENDING INVESTMENTS

2016 - 2017: Senior Backend Engineer; Financial Data Analyst

• Delivered machine-learning investment strategy for world's first peer-lending automated portfolio platform

- Automated data collection from multiple sources
- Weekly reports to CEO

AMAZON | AWS NETWORKING

2014 - 2015: Systems Engineer II

 Automated testing pipeline for the custom networking software AWS runs on physical routers, reducing testing cycle from weeks to hours • Built custom tools to automate management of highly specialized hardware.

DEMOCRATIC NATIONAL COMMITTEE | Systems Engineering

2011 - 2013 : Linux Systems Engineer | 2013 : Lead Systems Engineer

- Built/owned 1000's of metrics to maximize uptime of critical infra 24/7
- Revamped backup system to achieve better fidelity, 2x cheaper and 3x faster
- Saved over \$100k by analyzing TCO on physical vs cloud DB solutions
- Built an automated webpage capture system used for research and debate prep