

Sami Ansari

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Experience

AI Engineer (Contract)

Oct 2024 – Dec 2024

Rootly, Toronto, Ontario, Canada

- Built **proof-of-concept AI agent framework** using **RAG** for automated root cause analysis of SRE incidents
- Developed end-to-end **data pipeline demo** integrating Rootly, Slack, GitHub using **webhooks and API integrations** to generate actionable ML insights
- Implemented custom **chunking algorithms** for processing large-scale observability data from monitoring systems

Machine Learning Engineer Intern

Apr 2024 – Oct 2024

Cohere, Toronto, Ontario, Canada

- Enhanced **LLM quantitative reasoning** by 3% through development of **novel fully synthetic training dataset** without human annotation, becoming the **first engineer to contribute a fully synthetic dataset** to the **Command-R-Plus foundation model**
- Created specialized **evaluations for length control** and adapted **FinanceBench** for **base model assessment**
- Conducted **model ablation studies** analyzing impact of specific datasets on cross-category performance
- Collaborated cross-functionally with **evaluations, multilingual, and safety teams** to generate **synthetic multilingual data** for model training

Senior Data Quality Team Lead

May 2023 – Apr 2024

Cohere, Toronto, Ontario, Canada

- Designed and deployed scalable **data labeling platform** with **React/TypeScript frontend** and **Firebase/Firestore backend**, processing 100,000+ continuous tasks used by **200+ labelers**, **saving \$3M in operational costs**
- Built **backend data infrastructure** and developed Python scripts with **internal AppScript applications** analyzing tasks to extract insights for **ML model improvements**
- **Led SFT/RLHF labeling projects** and **first cohort of STEM and code-focused labelers**, working with **external data vendors** to consolidate **data quality standards** for post-training

Data Quality Specialist

May 2023 – May 2023

Cohere, Toronto, Ontario, Canada

- Delivered high-impact annotations including **preference ranking**, **quality scoring**, and **SFT conversation generation** across all domains
- Contributed to establishing **data quality standards** and annotation best practices

Medical Assistant

Oct 2022 – Apr 2023

P&A Medical, Toronto, Ontario, Canada

- Developed automated **patient ticketing system** using **Google AppScript** to streamline clinic workflow and reduce manual data entry
- Managed patient intake, scheduling, and medical record documentation in fast-paced healthcare environment

Technical Skills

ML & AI: LLM Fine-tuning, RAG, RLHF, SFT, Synthetic Data Generation, Model Evaluation, PyTorch, JAX, AWS Bedrock

Languages: Python, TypeScript/JavaScript, SQL, C/C++, Bash, FastAPI, React, Pandas, Polars

Infrastructure: AWS (S3, Lambda), Docker, Linux, NixOS, Slurm, Git, Redis, DuckDB, Firebase, Firestore, Tailwind

Speaking

Guest Lecturer on AI and Synthetic Data Generation for MMA Program

2024

Queen's Smith School of Business, Kingston, Ontario