

# 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

Jun 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+ tasks** used by **200+ labelers**, **saving \$3M in operational costs**
- Built backend data infrastructure and developed Python scripts with internal AppsScript 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

Jun 2023 – Jun 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 AppsScript to streamline clinic workflow and reduce manual data entry
- Managed patient intake, scheduling, and medical record documentation in fast-paced healthcare environment

## Technical Skills

**Languages:** Python, TypeScript/JavaScript, SQL, C/C++, Bash, Nix

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

**Frameworks & Libraries:** FastAPI, React, Pandas, Polars, Tailwind

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

## Speaking

**Guest Lecturer on AI and Synthetic Data Generation for MMA Program**

2024

Queen's Smith School of Business, Kingston, Ontario