LLM & Applications Workshop at the Canadian AI Conference

Large Language Models (LLMs) are transforming AI with their powerful natural language processing capabilities. This workshop provides a platform to explore the latest advancements, applications, and challenges in LLMs while fostering collaboration between researchers, practitioners, and students.
Key objectives include:

- Showcasing novel applications in **healthcare, personal assistants, information extraction, among others.**
- Addressing challenges in **fine-tuning, alignment, scalability, and efficient inference.**
- Providing **hands-on tutorials** for students and newcomers.

Topics of Interest

- LLMs, Prompt Engineering, Fine-Tuning
- Efficient Architectures, LLM-based Agents, Multi-Modal Models
- Real-Time Inference, AI Safety, Evaluation Techniques

Keynote Speakers

- Hamidreza Eslami, Director, Fraser Health Authority
- Xiaoxiao Li, CIFAR AI Chair, University of British Columbia

Organizers

- Najeeb Khan, Ph.D. – Applied Scientist, Amazon
- Farhad Maleki, Ph.D. – Assistant Professor, University of Calgary
- Alireza Morsali, Ph.D. – Senior Data Scientist, Global Relay

Call for Participation

We invite researchers, practitioners, and students to submit papers (up to 6 pages) on topics such as:

- Novel LLM Applications (personal assistants, healthcare, etc.)
- Prompt Engineering Techniques
- Fine-Tuning & Alignment Strategies
- Efficient Architectures & Optimization
- Evaluation Methods for Practical Use Cases

🔗 [Paper Submission Form](#)

Workshop Highlights

Keynote Talks – Presentations by leading experts in LLM research.
Paper Presentations – Showcase of innovative research & applications.
Hands-on Tutorials – Practical sessions covering:

- Advanced Prompting Techniques & RAG
- Alignment & Fine-Tuning Strategies
- LLM Evaluation Methods
- Efficient Inference Techniques

Important Dates

- Paper Submission Deadline: May 1, 2025 AoE
- Notification of Acceptance: May 15, 2025
- Workshop Date: May 26, 2025

Workshop Location

Taylor Institute, Room 148

Workshop Schedule

- 09:30-10:00 | *Keynote: Responsible Innovation: Revolutionizing Healthcare with Generative AI*
- 10:00-10:30 | *Keynote: Foundation Models in Healthcare: Advances, Pitfalls, and Path Forward*
- 10:30-11:00 | *Coffee Break*
- 11:00-12:00 | *Session 1 - Intro to LLM*
- 12:00-12:10 | *Presentation: Automatic Extraction of Performance Metrics from the Scientific Literature*
- 12:15-12:25 | *Presentation: Using Negative Nudging to Measure LLM Hallucinations*
- 12:30-02:00 | *Lunch*
- 02:00-03:00 | *Session 2 - Finetuning*
- 03:00-03:30 | *Coffee Break*
- 03:30-04:00 | *Building AI systems with Databricks*
- 04:00-05:30 | *Session 3 - Agentic AI*

Workshop Starter Repo

Github link

Contact us at ai@ucalgary.ca for any inquiries.

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