

ICSTI Impact Forum

Large Language Models - Trends and Use Cases



PROGRAM

Tuesday, November 19th, 2024 2:00pm UTC
(view in local time zone)

This meeting will explore emerging trends and use cases in scientific and technical information, and feature talks from leading experts in the field. Impact Forum is open to **all ICSTI members**. At this meeting, members will hear from three leading experts in Large Language Models on current projects in their organization. Attendees will also have an opportunity to discuss with speakers and one another on the topic.

Dr. André Greiner-Petter



Dr. Greiner-Petter's talk will explore the contradictory criticism of LLMs for their poor performance in mathematical applications and their abilities to pass challenging mathematical milestones. He will further examine how LLMs sometimes succeed in high-profile math challenges, but simultaneously lacking the ability to reliably perform basic arithmetic.

Dr. Allard Oelen



In this talk, Dr. Oelen will present ORKG Ask, a scholarly search and exploration system. Ask uses LLMs, Semantic Search and Knowledge Graphs to provide users with a powerful and fine-grained search, going beyond the traditional keyword-based search tools. Ask is able to answer research questions and automatically extract key elements from publications. Furthermore, Ask provides the ability to upload a bibliography and apply LLMs on the contents to gain new insights. In the end, Ask is part of the next generation of scholarly search tools.

Robert Underwood



In this talk, Robert Underwood will share the recent progress of the AuroraGPT Team, how data contributes to the project of building a science-focused LLM with AuroraGPT, and the topics that his team sees as open questions. He will discuss the systems and data quality challenges the team tackles to prepare terabytes of scientific data and text to produce high-quality text and data for training.