FS Seminar on GenAI: Opportunities and Challenges

Date: 8 January 2024 (Monday)
Time: 2:30 pm - 4:00 pm
Venue: HJ302

Recent advancements in Generative AI (GenAI), exemplified by groundbreaking developments like ChatGPT, have ignited a global dialogue concerning both the remarkable potential and the pressing limitations of this transformative technology. GenAI stands at the forefront of innovation, with its capacity to generate text, images, videos, and even code that closely mimics human creativity. This spotlight has illuminated the vast opportunities that GenAI presents, but it has also cast a critical spotlight on issues of ownership, transparency, bias, misinformation, and the complex ethical considerations and human rights implications tied to AI-generated content.

In this talk, I will explore the multifaceted landscape of GenAI, examining the various prospects and obstacles that lie within. Furthermore, I will provide insights into how college/graduate students and young professionals can leverage state-of-the-art AI tools, such as prompt engineering and fine-tuning, to create new GenAI applications tailored to specific industries.

The agenda for this talk will encompass the following key points:

- Understanding GenAI: I will begin by defining GenAI, shedding light on its core principles, and exploring its role in shaping the digital landscape.

- Deciphering Generative Large Language Models (LLM): Dive into the inner workings of Generative LLM, unraveling the intricacies of this powerful technology that underpin GenAI.

- Exploring GenAI Applications: Delve into the diverse array of applications powered by GenAI, ranging from content creation to problem-solving and beyond.

- Navigating Risks Associated with GenAI: Address the potential pitfalls and risks tied to GenAI, including bias, misinformation, and ethical concerns, highlighting the importance of responsible AI development.

- Unlocking Innovation Opportunities: Conclude by examining the wide-ranging innovation opportunities that GenAI presents, particularly for emerging professionals and students looking to make an impact in various industries.

This talk aims to provide a comprehensive overview of GenAI, fostering a deeper understanding of its capabilities, challenges, and potential for positive transformation while emphasizing the critical need for ethical and responsible implementation in an ever-evolving technological landscape.