



DSICCR Tuesday Seminar Series

February 14th, 12pm-1pm, Webcast [Click Here](#)

Large language models and their application in biomedical domain

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Artificial Intelligence (AI) systems have been advancing at an alarming rate incurring a proliferating interest in developing and using these techniques to solve various problems. Over the past decade, deep neural learning techniques have powered natural language processing (NLP) tasks. With the emergence of Transformer based architectures, we observed the rise of large language models (LLMs) that are unparalleled in their ability to achieve state-of-the-art results in challenging NLP tasks like question answering, text generation, entity and concept extraction, and natural language inference. These massive LMs have also gained immense popularity in the biomedical domain through domain-specific pretrained models like BioBERT, BioGPT, and PubMedBERT, to name a few. In this talk, we start with a brief overview of the current state of these large language models and how they have been applied to a wide variety of tasks. The latter half of the talk will focus on the existing LLMs in the medical domain and their application and impact on medical AI systems to improve healthcare delivery.

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