Department of Biostatistics and Medical Informatics Seminar

Tim Miller, PhD

Principal Investigator in Boston Children's Hospital
Associate Professor at Harvard Medical School

Friday, February 23, 2024
12:00-1:00 pm
Biotech Center Auditorium *or* via Zoom Link
https://uwmadison.zoom.us/j/95515534304?pwd=NnR5TnNmZXpEMWJBV2wvYTA1bjMvQT09

Bringing Biomedical NLP into the Large Language Model Era

Abstract: Biomedical NLP aims to make it easier to extract important information from unstructured texts like electronic health records, biomedical journal articles, regulatory documents, etc, and to use this information to improve our lives. In this talk, we will describe recent work in this area from Dr. Miller's lab, and connect it to bigger questions facing the field of biomedical NLP with the emergence of powerful class of models known as large language models (LLMs). How important is dataset creation? Will NLP experts and subject matter experts need each other anymore? Will LLMs still suffer from out-of-domain performance loss as supervised models?

Bio: Tim Miller is an Associate Professor in the Computational Health Informatics Program at Boston Children's Hospital, Department of Pediatrics at Harvard Medical School, and at the Harvard-MIT Center for Regulatory Science. He is the PI of the Machine Learning for Medical Language Lab, home of several federally funded projects, including projects focused on basic biomedical NLP research, as well as projects that are driven by biomedical use cases. His research focuses on domain adaptation/generalizability of ML-based NLP methods, and learning patient representations.

School of Medicine and Public Health
UNIVERSITY OF WISCONSIN–MADISON