



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: August 26, 2024

Time: 04:15 PM

VENUE:

L- infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Challenges in Responsible Generative AI

SPEAKER:

Aritra Guha

Data Science and AI Research, AT&T

ABSTRACT:

Recent innovations in generative AI imply that multimodal systems that can generate and analyze across variety of data formats including texts, images, graphs and other data types find usage across various aspects of modern life, such as healthcare, transportation, climate, finance, to name a few. However, such rapid advances also give rise to ethical and governance challenges that are crucial to address. In the first part of this work, we outline some of the ethical challenges across various modes of generation, and identify ways to detect the extent of the challenges. In addition we will also outline some Statistical/Machine Learning strategies to mitigate some of the concerns outlined. In the second part of the talk we will explore how a strategy based on optimal transport distances, specifically through the use of Wasserstein barycenters on the geodesic connecting subpopulation distributions, can address some of these issues and enhance model robustness.

ALL ARE CORDIALLY INVITED