

Scientific Foundation Models - A new paradigm of AI towards accelerating science

Payel Das

¹IBM Research, USA

daspa@us.ibm.com

Foundational AI models are catalyzing a transition toward a new scientific paradigm. In this talk, I will discuss the development and applications of scientific foundation models (SFMs) across disciplines including chemistry and biology and how they can be effectively utilized to accelerate discoveries. Finally, I will talk about the safety implications of such SFM use, emphasizing the dual-use paradigm and need for safety guardrails around the SFM framework.