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Making Sense of Chaos: Data Science for Complex Systems

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Abstract

Life is full of complex, evolving systems — from social networks to ecosystems. Using tools from mathematics, statistics, and AI, scientists can unravel patterns hidden within large datasets. This talk offers a glimpse into how we decode real-world complexity using data science.

About the Speaker

Dr. Anirban Chakraborti is currently a professor at the School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi. He graduated with a master's in physics from the University of Calcutta, obtained his Ph.D. in physics from Saha Institute of Nuclear Physics (Jadavpur University), and completed a Habilitation à Diriger des Recherches (HDR) in physics at Université Pierre et Marie Curie, Paris. He has more than two decades of experience as an academician and held various positions, including serving as the registrar at JNU, an associate professor at the Chair of Quantitative Finance at Ecole Centrale Paris, and a lecturer in theoretical physics at Banaras Hindu University. His postdoctoral research was conducted at Brookhaven National Laboratory, USA, and Helsinki University of Technology (Finland). He has also served as the Dean of Research & Development and Dean of School of Engineering and Technology at BML Munjal University, Gurugram. His pioneering research works in Econophysics, Sociophysics, Complex Systems and Data Science have been published as books, edited volumes, and research articles. He also has expertise on quantum physics (entanglement) and nanomaterial science (quantum dots and two dimensional nanosheets). Chakraborti was awarded the Young Scientist Medal by the Indian National Science Academy in 2009, and elected as a Fellow of The World Academy of Sciences (TWAS-UNESCO) in 2023.

In addition to his academic pursuits, he is deeply engaged in social work. He serves as the Chairperson of Sunaayy Human Welfare Foundation, a nonprofit organization dedicated to providing basic education to underprivileged children in Vasant Kunj, New Delhi. Additionally, he is a mentor at the Sabudh Foundation. He is also a founding member of the Institute for Interdisciplinary Research, New Delhi, as well as the Center for Complexity Economics, Applied Spirituality and Public Policy (CEASP), O.P. Jindal Global University.