Talk title: Quantum Machine Learning for Healthcare

Abstract: Healthcare and drug discovery are prime examples of areas that could see a tremendous impact from quantum-classical computational workflows because they require accurate and reliable simulations of complex systems (for example, molecules, proteins, and cells) or necessitate learning complex behaviours from limited experimental data. This talk will start with technological shifts in healthcare with accelerated discovery using AI, and focus on real-world use cases of quantum-enabled applications that are being studied by different academic and medical research facilities across the globe. We will discuss open research problems and present our vision to reimagine key areas which India should lead in this sector.