



BCL5

5th Workshop on Brain, Computation, and Learning



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04 July | 11:00 – 12:30
Faculty Hall



Assistive NeuroTech: Empowering Lives with Inclusive Intelligence

Abstract: There are over 1 billion people globally living with disabilities, many of whom still lack access to fundamental tools for mobility, communication, education, and employment. At Torchit, we are building affordable, AI-powered assistive technologies inspired by neuroscience and human-centered design. In this talk, I will present our flagship innovation, the Jyoti AI Smart Glass, which enables visually impaired individuals to perceive and interact with the world through audio-visual intelligence. I will also discuss how biologically inspired computing principles, neuro-assistive feedback loops, and inclusive deployment models are enabling us to scale this solution across India. The presentation will highlight real-world use cases, insights from our field deployments, and how we envision a collaborative ecosystem between researchers, clinicians, and technologists to advance NeuroTech for all.