

Department of Chemical Engineering, IIT Hyderabad Scientific Seminar Series 2026



Date: 27-04-2026

Time: 04:00 PM (IST)

Speaker: Dr. Boyina Jagadeeshwar Rajesh

Affiliation: Yashoda Hospital Secunderabad, India

Title: Building Meaningful Healthcare Technology: The Strength of Collaboration

Venue: LHC-10

Abstract

While AI has great potential to transform diagnosis, treatment, and accessibility in healthcare, building effective medical AI requires more than clean datasets. It is essential to understand the complex realities of clinical environments, where real-world healthcare data is often messy and unpredictable. Systems developed only on structured data frequently fail in practical settings. Therefore, meaningful innovation must be grounded in real clinical experience. Collaboration is one of the key requirements for building impactful healthcare solutions. No single discipline can address healthcare challenges alone. Successful products depend on coordinated efforts among doctors, engineers, designers, administrators, marketing professionals, investors, policymakers, and end users. This collective effort forms the foundation of practical and scalable innovation. In healthcare AI, this foundation includes clinical understanding, awareness of the caregiving, and a deep focus on user needs. In India, limited collaboration across sectors has slowed the development of breakthrough medical technologies. Although we play a major role in global medical innovation—contributing to research and design—the recognition and economic benefits often go to international companies. On the other hand, many organizations focus on models from developed countries, aiming primarily to reduce costs rather than designing solutions tailored to India’s unique healthcare challenges. The closing thought is “If we build together, we can lead the future of healthcare innovation.”

Biography

Dynamic and accomplished Neurosurgeon with more than two decades of clinical, academic, and research experience. Expertise spans from advanced neurosurgical procedures to pioneering technological innovations in healthcare. A proven leader in interdisciplinary collaboration, medical education, and mentoring start-ups. Pioneered multiple healthcare innovations with practical application in critical care. He has Established premier neuro-institutes focused on education, training, and translational research. He successfully treated more than 2000 patients including new techniques such as Intra op MRI, IONM, Deep Brain implants, Endonasal endoscopic brain tumor resection etc. Established Yashoda Hospitals as a pioneer center for Advanced Intra-operative Neuromonitoring such as awake brain surgeries and cognitive mapping for brain tumor surgeries.

Education

PDF : Neurovascular surgery: Sree Chitra Tirunal Institute for Medical Sciences and Technology. (SCTIMST) (2002).

MCh Neurosurgery: Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) (1999 – 2001)

MBBS and MS General Surgery: Gandhi Medical College (1987 – 1993, 1995-1998)

Academic & Advisory Roles

External Faculty: Biomedical Engineering, Osmania University (2013 – 2015)

Mentor: Start-up India, T-Hub, TEZ, We Hub, Stanford Seed

Advisory Board Member: Makers Hive, KIPUWEX

Practice School lead Mentor: BITS Pilani

Entrepreneurial & Innovation Initiatives

Founder: YANS – Yashoda Academy of Neuroscience. An interdisciplinary department aimed to foster education, collaboration, research, publications for the neuroscience's domain at Yashoda hospitals.

Co-Founder – AAIHC (Association of Artificial Intelligence in Health Care). A non-profit organization started with the concept of developing indigenous innovative affordable health care solutions

Co-Founder – Acintyo Group Pvt. Ltd A pvt limited company with multidisciplinary themes empowering the farmers (ACINTYO AGRITECH) and local pharma retailers (ACINTYO LOCAL), Export import platform (ACINTYO EXIM), technology (ACINTYO TECH).