



iHub Anubhuti-
IIITD Foundation

iHUB ANUBHUTI

www.anubhuti.tech



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY



Our North Star

“ I will give you a talisman. Whenever you are in doubt, recall the face of the poorest and the weakest man you may have seen, and ask yourself, if the step you will take is going to be of any use to him? Then you will find your doubts and your self melt away. ”

mk Gandhi





About iHub Anubhuti

iHub Anubhuti-IIITD Foundation, has been established by Indraprastha Institute of Information Technology Delhi (IIITD) as a Section 8 Company (not for profit) under the aegis of the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) of the Department of Science and Technology, Government of India.

iHub Anubhuti-IIITD Foundation stands as a beacon of innovation among the twenty-five Technology Innovation Hubs (TiH) strategically dispersed nationwide, dedicated to pioneering advancements in Cognitive Computing and Social Sensing (CC&SS).

From the CEO's Desk

“Anubhuti means Realization. At iHub Anubhuti, we are striving to realize a strong Nation who's self-reliant and a technology powerhouse, not only empowering people to solve challenges facing our Nation, but also provide solutions to the world, for a better future for the whole of humanity.”



Vinay Mehta
CEO, iHub Anubhuti IIITD Foundation



Rajeev Goel
COO, iHub Anubhuti IIITD Foundation

“iHub Anubhuti IIITD Foundation is a leader in AI-driven innovation, fostering dynamic collaboration between academia, industry, and government. We are committed to bridging the gap between technology and healthcare by driving meaningful change through translational research and impactful applications. Our initiatives empower startups and create pathways for affordable and accessible healthcare. Through innovation and excellence, we are building a smarter, more connected healthcare ecosystem.”

From the COO's Desk

iHub Anubhuti Focus Areas



Translational Research

We support 25+ research initiatives that are revolutionising the field of Healthcare and Education to shape the future with impactful research and technology.



Technology Development

iHub Anubhuti is committed to developing innovative technology products and solutions in healthcare and education.



Entrepreneurship, and Start-up Ecosystem

iHub Anubhuti supports startups, Grand Challenges, Accelerator programs, promoting early innovators & entrepreneurs, seed support/funding assistance, startup loans, mentorship, GTM strategies, product development and much more.

Translational Research

14+ Research Projects dedicated to Healthcare



Project- A pre-trained model-based approach to the characterisation of functional heterogeneity in cancer

This project integrates genomics and deep learning to decode tumour heterogeneity, advancing cancer research and targeted therapies. The technology under development shall be impactful for Cancer diagnosis and Tuberculosis (TB) as well.



Dr. Debarka Sengupta IIIT Delhi



Project- Neev: An AI-Enabled Cloud- and Smartphone-Based Learning Platform for Community Health

"Neev" empowers ASHAs in India with an AI-enabled platform for maternal and child healthcare, promoting informed decisions and strengthening public health in line with SDG 3.



Dr. Pushendra Singh IIIT Delhi



Project- Leveraging Multi-modality in Understanding and Summarizing Task-Oriented Dialogue Systems

Helps alleviate mental health taboo and assists therapists with a head start for diagnosis.



Dr. Tanmoy Chakraborty IIT Delhi



Project- Development, validation and deployment of a novel prediction model utilizing artificial intelligence on clinical and proteomic features to predict mortality among patients with acute-on-chronic liver failure (ACLF).

Aim to develop, validate, and deploy a novel AI-derived model on clinical and proteomic features to predict mortality in patients with ACLF



Dr. Nipun Verma PGIMER, Chandigarh

1

Cancer Detection



2

Mental Health



3

Respiratory Illness



4

Medical Imaging



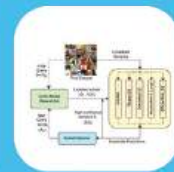
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Healthcare Data Privacy



Project- A Tool to Detect Privacy Leaks in Deep Learning Models

Such a tool would make it easier for ML-Ops people to evaluate a Machine Learning or Deep Learning Model before deployment as an API.



Dr. Vikram Goyal IIIT Delhi



Project- Cognitive computing approach based analysis of genomic information in blood plasma for diagnosis and prognosis for cancer

Development of AI model to revolutionize cancer diagnosis by analyzing cell-free DNA/RNA from blood for early detection and tumour tracking, overcoming data variability challenges.



Dr. Vibhor Kumar IIIT Delhi



Project- Enabling Smart-sensors via Novel Edge-AI and In-memory Compute Paradigms: From Design, Prototype to Fabrication

Developing low-cost, fast prototyping solutions in India accelerating R&D in the edge-AI ecosystem



Dr. Anuj Grover IIIT Delhi



Project- Explainable AI Methods for interpretable transcriptomic cancer data analysis

The goal is to extract meaningful insights, enhancing the understanding of genetic mutations unique to individual cancer patients.



Dr. Ranjitha Prasad IIIT Delhi

Supporting Indigenous Technology Development

40+ Startups dedicated to Healthcare



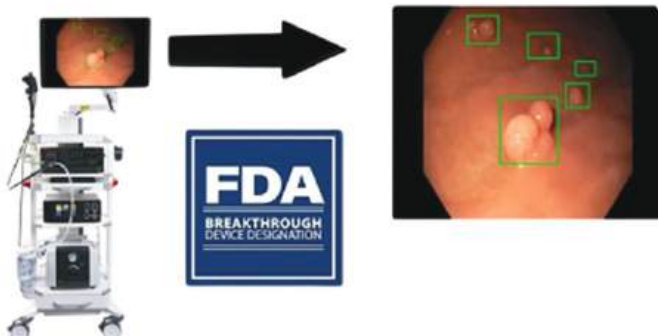
Heart Beat Monitoring

UpBeat, an instrument for 24x7 continuous heart monitoring, developed by Monitra.



Chronic Pain Management

Chronic Pain Management platform that helps treat various kinds of chronic pain.



Gastrointestinal Diagnostics

Gastrointestinal Diagnostics through cutting-edge AI, approved by FDA.



Blood/fluid analytics

AI-based Blood/fluid analytics for increasing reporting efficiency.



 Neuranics Lab



Smart Stethoscope

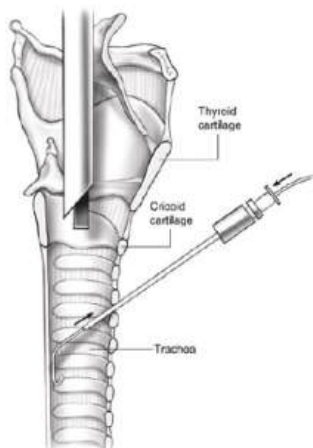
Smart Stethoscope that helps accurately diagnose and verify heart and lung diseases independently.

 **Spanda**
DIGITAL STETHOSCOPE

Neuro-Compute Phygital Gaming System

Building an all-inclusive Platform for Holistic Health -Blood, Body, and Brain

 Zeuron.ai



Pressure sensing technology for subjectively monitoring tactile feel

A sensor-equipped device that objectively monitors reaction forces as the needle advances through tissues during procedures.

 **SARALA
MEDTECH**

AI-Powered Innovation Meets Advanced Technology

Medyseva is focused on Telemedicine and medicine vending kiosks in Rural India. It seeks to become the ultimate healthcare partner of all citizens such that they can get access to high-quality healthcare services that are affordable and accessible.

medyvend



Accurate prediction of Heart Disorders

Development of AI model to accurately analyse the ECG data, identify patterns associated with heart disease, and distinguish real emergencies from false alarms.



5th September, 2024

Organized by
Department of Science & Technology, Government of Karnataka
12 November 2023
IIISc, Bengaluru



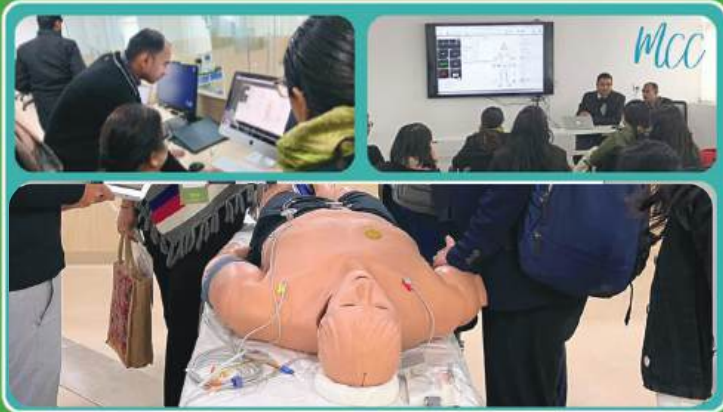
BRIOTA



Public Health Camps for screening Oral Cancer, Breast Cancer, Cervical Cancer



AI-driven sensing devices for NCDs.



Human Patient Simulator (HPS) at Medical Robotics Center, iHub anubhuti



Skilling course for doctors, nurses, paramedics and medical students at MCC, iHub anubhuti



Ecosystem Partners



& many more...

Google Center of Excellence

50+
Startups

250+ CR.
Fund Raised
by Startups

20+
Research
Projects

80+
Research
Publications

35+ CR.
Revenue Raised
by Startups

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