



AMRIT GRAND CHALLENGE



*REIMAGINING HEALTHCARE
DELIVERY
-TOUCHING A BILLION LIVES*

A REPORT ON EARLY-STAGE INNOVATIONS





AMRIT GRAND CHALLENGE



Reimagining the Healthcare Delivery -
Touching a billion lives

Distribution of AGC-जनCARE beneficiaries across India

ACKNOWLEDGEMENT

We are deeply grateful to the esteemed organizations and individuals whose contributions have been instrumental in the program's achievements and played a pivotal role in its success.

We are privileged that the Honorable Union Minister Dr Jitendra Singh, Minister of State (Independent Charge) Earth Sciences; Minister of State (Independent Charge) of Science & Technology; Minister of State in the Prime Minister's Office, Minister of State in the Ministry of Personnel, Public Grievances has launched the “Amrit Grand Challenge-**अमृत**CARE Program”. This initiative aims to identify innovations in telemedicine, digital health, mHealth, Big Data, AI, blockchain, and other emerging technologies.

We are deeply indebted to our partners, including the Department of Biotechnology (DBT), Grand Challenges India (GCI), India Health Fund (IHF), Stryker (CSR Partner), and Amazon Web Services (AWS), for their unwavering support and collaborative efforts.

We extend our heartfelt gratitude to our program committee experts for reviewing the grantees' progress and providing them with invaluable mentorship.

We sincerely thank our program-implementing partner, IKP Knowledge Park, for their dedicated efforts in executing the program and providing invaluable support to the beneficiaries within and beyond the initiative's scope.

We would like to express our heartfelt gratitude for the internal support from our BIRAC team, including Dr. Manish Diwan, Dr. Shirshendu Mukherjee, Ms. Shilpy Kochhar, Dr. Chandra Madhavi, and Ms. Rashmika Singh, as well as the team at IKP, including Ms. Deepanwita Chattopadhyay, Dr. Viswanadham Duppatla, Ms. Dedeepya Chermala, Ms. Apoorva Bhatnagar, Mr. MVP Varma, Mr. Ravindra Babu and IKP PRIME. Their invaluable contributions were essential in implementing the program, organizing technical reviews, and coordinating consultations with experts.

This acknowledgement is a testament to the collaborative spirit and dedication of everyone involved, whose contributions were essential in elevating this program to its professional and impactful stature.

Table of Contents

- 1. Introduction to Amrit Grand Challenge- जनCARE**
- 2. Areas of Focus**
 - a. Access to primary healthcare in tier-2, tier-3 cities and rural settings
 - b. Solutions to enhance patient compliance
 - c. Health Data Collection, Predictive Analysis and Digital learning in medicine
 - d. Data Privacy, Storage and Security Solutions
 - e. Solutions for improved community outreach
 - f. Data-driven modeling to enable pharma/biopharma R&D and Innovation
- 3. Technology Domains**
- 4. Success Stories - Creating Impact on the Ground**
 - Parisodhana Technologies
 - Rymo Technologies
 - Backyard Creators
 - Logy.AI
 - Inovocare Healthsoft Solutions
- 5. AGC - जनCARE Chronicles**
- 6. Appendix**
- 7. Empowering Progress: The Impact of BIRAC and IKP**

INTRODUCTION TO AMRIT GRAND CHALLENGE - जnCARE

The Amrit Grand Challenge - जnCARE program is structured to support various stages of innovation through different funding levels. The program selected 89 Startups in 3 different categories, 74 early-stage innovations, offering up to INR 10 lakhs each for ideation and testing, and 13 late-stage innovations to support pre-commercialization efforts, offering an investment of INR 20 lakhs each. Additionally, the program will extend an investment of INR 50 lakhs to 2 advanced-stage innovations for multi-centric product deployment.

The challenge identified six focus areas for support. These include improving access to primary healthcare in tier-2 and tier-3 cities, as well as rural areas. The emphasis is on low-cost, scalable, and viable innovations integrating physical, digital, or hybrid systems for primary healthcare. Enhancing patient compliance is another critical focus, with solutions aimed at improving patient tracking systems, health record management, enrollment, triaging, digital identity, health education, homecare, and patient entitlements.

In the realm of health data, the program seeks innovations that involve image-based diagnosis, clinical decision support systems, smart hospitals, disaster management, early screening, tertiary prevention, decision support systems, self-learning solutions, and predictive analysis both locally and globally. The challenge also prioritises data privacy, storage, and security solutions, including federated learning models, offline-online hybrid healthcare models, self-learning management systems, healthcare financing, data integration, and information exchange solutions.

Improving community outreach is another area of focus, with a particular interest in interventions for Asha workers, supply chain technologies, logistics, resource allocation tools, and digital solutions for a connected healthcare system.

The program encourages data-driven modelling to advance pharma and biopharma research and innovation, aligning solutions with the Ayushman Bharat and National Health Digital Mission (NHDM).

AREAS OF FOCUS

The following 6 focus areas have been identified to be supported under the Amrit Grand Challenge - जनCARE program.

Access to primary healthcare in tier-2, tier-3 cities and rural settings:

Low cost/scalable/viable innovations with relevant lifespan, Synergy with physical & Digital/Hybrid systems for primary healthcare.

Solutions to enhance patient compliance:

Patient tracking systems, Patient health record management, Patient enrolment system, Patient Triaging, Digital Identity, Health protection & promotion/health education, Patient Compliance/Homecare, and Entitlement of patients.

Health Data Collection, Predictive Analysis and Digital learning in medicine:

Image-based diagnosis, clinical decision support system, Smart and connected hospitals, Disaster management, Early screening/ Tertiary Prevention/ Disability delay, Decision support system, Self-learning/training solutions, and Computation/ Predictive Analysis at local & global levels.

Data Privacy, Storage and Security Solutions:

Federated learning models, Offline-online hybrid healthcare models, self-learning management systems, healthcare financing/insurance, Data Integration solutions, and Exchange of Information solutions.

Solutions for improved community outreach:

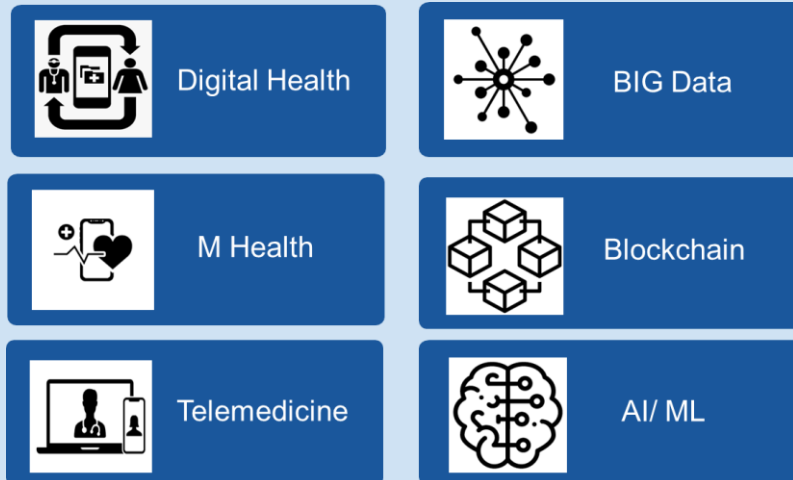
Interventions to facilitate Asha workers, Supply chain technologies, logistics, resource allocation tools, and a Digital bridge for a connected healthcare system.

Data-driven modeling to enable pharma/biopharma research development and Innovation:

The solutions aligned with Ayushman Bharat and National Health Digital Mission (NHDM) will be the preference.

TECHNOLOGY DOMAINS

The focus is on digital health technologies, seeking groundbreaking solutions in telemedicine, mHealth, and AI&ML. These Innovations have the potential to bridge gaps in healthcare infrastructure, particularly in underserved areas.



Success Stories
Creating Impact on the Ground

PARISODHANA TECHNOLOGIES PRIVATE LIMITED



At Parisodhana Technologies, a groundbreaking initiative began with a vision to transform neonatal care during transport. The team developed Neoport, a smart tracking system for safely transporting newborns from remote areas to medical centers. They created NeoWarm, an instant, portable, air-activated warm blanket to keep premature and low birth weight babies at the right temperature during transport. They received the Best Startup/Digital Health Innovation Award from Modi Prix Galien India and the Saksham Aavishkar Award from PATH, USAID, and other notable organizations.



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RYMO TECHNOLOGIES PRIVATE LIMITED

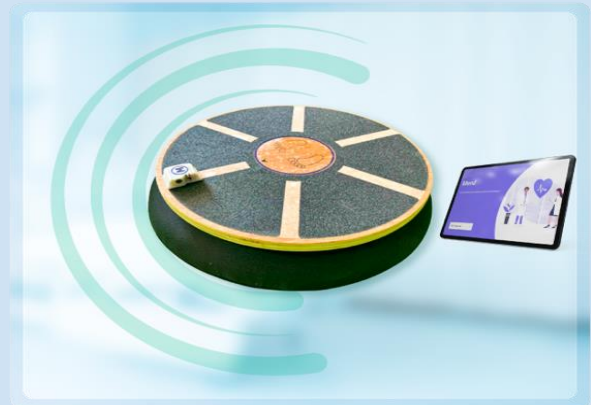


Rymo Technologies Pvt. Ltd. developed Mobi-L, India's first robotic rehabilitation device for upper and lower limbs, using robotics and virtual reality to aid recovery from strokes and spinal cord injuries offering 20-plus exercises designed to enable full recovery.



80 units across India, including prestigious institutions like AIIMS, Manipal Hospital, and Apollo Hospital.

- Partnered with Dr. Riccardo Bettinardi from Italy, starting in November after Medica 2024; U&O's Gianluca to assist with EU MDR and marketing
- Medica 2024: Mobi-L will be showcased with Fourier Intelligence at Europe's largest medical device fair in Düsseldorf



Mumbai-based startup offers compact solution to mobility needs

RYMO's portable, robotic, game-based mobility trainer offers 20-plus exercises, enabling full recovery of patients.

Social Alpha AssistiveTech Team • 1 Stories



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BACKYARD CREATORS PRIVATE LIMITED

Impulse – Bionic Ear

Backyard Creators embarked on an exciting journey to revolutionize hearing technology with their flagship product, "Impulse," which is an external ear device designed to restore hearing for congenital hearing loss.

This non-surgical hearing device was designed to offer a groundbreaking approach to auditory enhancement without the need for invasive procedures. The journey, supported by AGCjanCARE, involved crucial steps to refine the technology. They optimized the prototype, integrating Bluetooth Low Energy (BLE) for enhanced connectivity and filed a patent to protect their groundbreaking technology.

With Impulse, Backyard Creators are not just creating a device but a new way to experience sound, combining advanced technology with a deep commitment to improving lives.



Honble Chief Minister, Mr. M. K. Stalin presented the Innovation award to Backyard Creators Team.

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LOGY.AI

Logy.ai offers instantaneous, personalized oral and eye health reports via its Generative AI-powered chatbot. The company has launched an innovative eye screening solution leveraging Vidisha 5G technology, enabling users to simply upload a photograph for AI-driven analysis. This cutting-edge approach streamlines the diagnostic process, eliminating the need for protracted checkups and providing users with convenient access to valuable health insights.



Prof. Geoff Rodgers and Michael Joseph, PhD, Brunel University, London interacted with Logy.AI team @ ISB.

Sharp Sight Eye Hospitals is leveraging Logy.AI's technology to promote better vision and awareness among elderly patients.

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INOVOCARE HEALTHSOFT SOLUTIONS PRIVATE LIMITED

Non-Invasive Baro Reflex Assessment—Combined System



Inovocare Healthsoft Solutions started its journey at the School of Tropical Medicine in Kolkata with the creation of NIBRA-CS®, a cloud-based diagnostic device for non-invasive assessment of baro-reflex and autonomic function to diagnose Dysautonomia. Initially supported by the NIDHI Prayas and BIRAC Biotech Ignition Grants, and further advanced with the AGC-JanCARE Grant, NIBRA-CS® was officially launched at Global Bio India 2023. The device meets EHR/EMR standards and ABDM requirements and is designed to be a cost-effective solution for diabetic and elderly patients.



NIBRA-CS® is certified by CDSCO MD-13 and MedTech Mitra, and has been selected for the NSRCEL, IIM Bangalore Healthcare Incubation Program. It is involved in clinical studies with Dr. Krishnendu Roy and has received Ethics Committee approvals from institutions like AIIMS, and Kalyani.



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The AGC-जनCARE Chronicles

ADSYS MEDTECH PRIVATE LIMITED



Adsys One: Point of care device for Complete Blood Count

It is an innovative AI-powered, point-of-care device that delivers rapid Complete Blood Count (CBC) reports using just a finger prick. Designed to revolutionize blood diagnostics, this device utilizes cutting-edge robotics and deep learning technology to provide accurate results in under 10 minutes, making it ideal for environments that require quick and reliable testing.

Achievements

- Winners - TiECon Vadodara
- Finalist - IIMA Health Summit



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ACCELERD SCIENCES PRIVATE LIMITED

QuantES Kit

IoT-enabled portable point-of-care screening test kit for the estimation of Down Syndrome risk in pregnant women during their first trimester. It quantitatively estimates the disease biomarkers from a few drops of blood within 15 Minutes.



Representative image of the product: Disposable strip and the Device

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ARCAP SIS TECHNO SOLUTIONS PRIVATE LIMITED

XpertHaler- An AI and ML-based COPD and Asthma Management Solution

A standalone, reusable Universal Actuator capable of accepting 90 of the standard MDI medication which houses a powerful combination of BT enabled Hardware and an App with Cloud connectivity.



Contact:

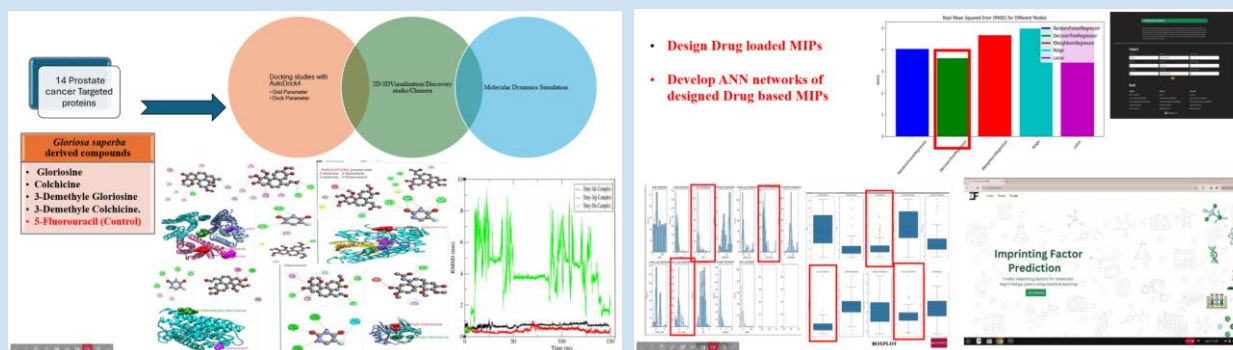
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Modeling Drug-Loading Biopolymers Using AI

Designed machine learning models for Molecularly Imprinted Polymers (MIPs), developed a web portal for anticancer MIPs, and identified Gloriosine and colchicine derivatives as potential prostate cancer treatments.



Achievements

- Poster presentation at an International Conference on in silico Trends and Approaches in Drug Discovery and Development, 22-24 October 2023, Doha University, Qatar
- Oral presentation at International Conference on Advances in Material Science and Chemistry (ICAMSC – 2023)

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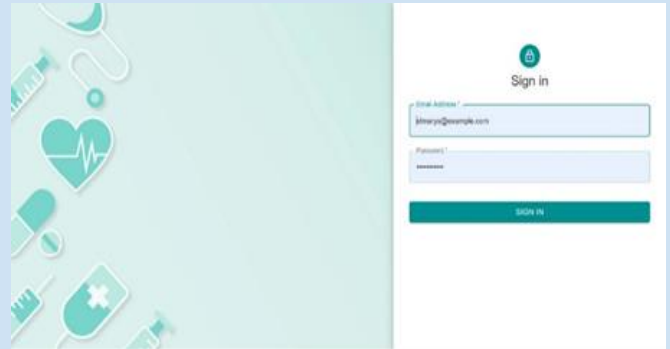
BIRLA INSTITUTE OF TECHNOLOGY, MESRA

Development of Intelligent Blockchain techniques for providing efficient management and storage security solutions for E-healthcare



बिरला प्रौद्योगिकी संस्थान
Birla Institute of Technology
Mesra, Ranchi (India) - 835215

Utilizing blockchain innovation, this proposal aims to secure and make Electronic Health Records (EHRs) accessible to authorized stakeholders, enabling swift emergency diagnosis and remote access to medical records.



Achievements

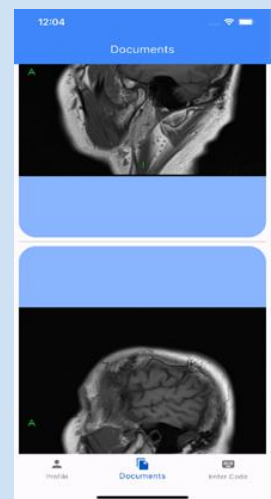
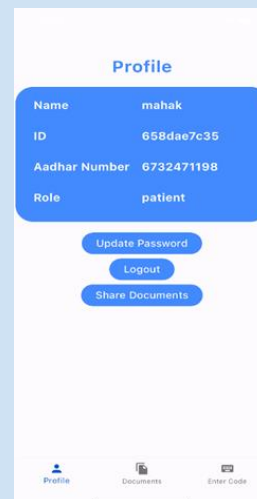
- 2 conference papers published
- 2 journal papers under consideration
- 2 patents filed

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Non-Invasive Point-Of-Care Diagnostics For Sickle Cell Disease

A digital system and a method for screening sickle cell disease (SCD) by thermal stimulation of the epithelial tissue surrounding the arterial wall on a test subject thereby inducing physiological change and detecting the physiological change/response and comparing it with the control/normal subjects to determine the disease. The epithelial cell response is monitored using photoplethysmography (PPG)



Achievements

- TSIC award in 2022
- IKMC early stage under the medical device category in 2019

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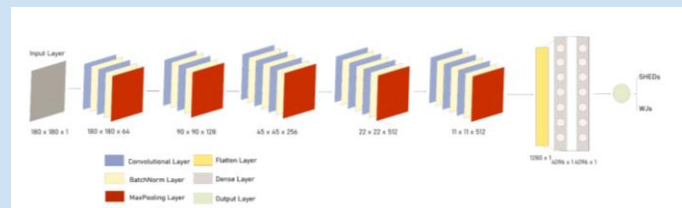
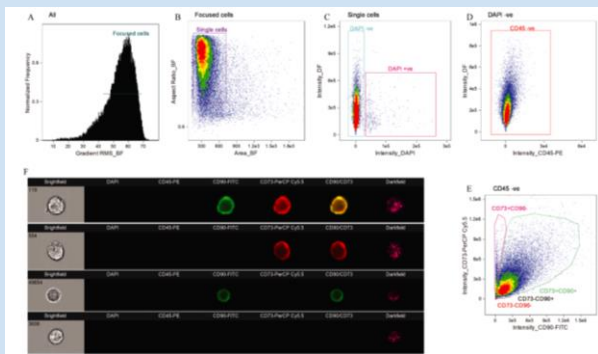
www.chrogeneaarogyam.com



Target Software: Lohit Nidaan

A machine learning-based diagnostic tool for real-time single-cell imaging of bone marrow aspirates from acute leukemia patients in India. This novel platform integrates ML with IFC technology, offering a visual, detailed analysis of abnormal cells, improving the speed and accuracy of diagnosis and prognosis.

Artificial intelligence models (SVM and CNN) classified Brightfield images of cells into Normal and Abnormal (B-ALL) based on marker expression



Architecture of the CNN model. The diagram shows the different types of layers used and the size of feature maps generated before every MaxPooling layer. (Mukhopadhyay et al. 2024, Methods)

Achievements

- The original article published in this study is as follows: doi: 10.1016/j.jymeth.2024.03.005 PMID: 38490594
- Invited to the Cytek Biosciences Users Meet in Taipei, Taiwan on the 27th of October, 2023

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G H RAISONI COLLEGE OF ENGINEERING

Smart web-based application for dental disease detection using Artificial Intelligence



Aims to develop a smart web-based application for Dental disease detection using Artificial Intelligence that will provide patients, especially in rural areas with access to personalized health information and support to improve dental care.

The proposed device helps to detect 5 oral dental diseases such as OSMF, Gingivitis, Gingival Phenotype, Calculus and Caries and early screening device for Oral Submucous Fibrosis (OSMF)



Achievements

- Runner-up - Avinya Competition in FATHOM 3.0 organized by Government Dental College Nagpur



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GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Medical device for Rural Health: Design and Development of a medical device using artificial intelligence for telemedicine applications in Rural India. To measure the vital signs of patients from remote primary health centres in villages.



Achievements

- Patent - App: ID:02441018402- Published

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ADARSA PRIVATE LIMITED

HELO HEALTH

Filling the vacuum in diagnostic services in rural Bharat through our innovative multi-parametric medical device, which is simple, painless, accurate and gives instant results for more than 51 parameters, includes vitals and common blood & urine tests, specialized tests, infectious diseases, health tracking parameters and markers. This cuts costs by more than 50% and processing cycle time by more than 90%.



Achievements



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JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY



Fundus image-based diagnosis and clinical decision support system for early prediction of glaucoma and grading of diabetic retinopathies (DR)

Developed clinical decision support systems for early glaucoma prediction and diabetic retinopathy grading using efficient feature representation. The system is accurate, easily integrated into wearables or handheld devices, and supports low-cost, remote patient care.

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JSS DENTAL COLLEGE AND HOSPITAL



Machine Learning-based smart mobile application for detecting clinical dental fluorosis.

Provides a cost-effective platform for collecting dental fluorosis data. The application captures electronic records with 93% accuracy, aiding future research and decision-making.

Achievements

- Applied for copyright

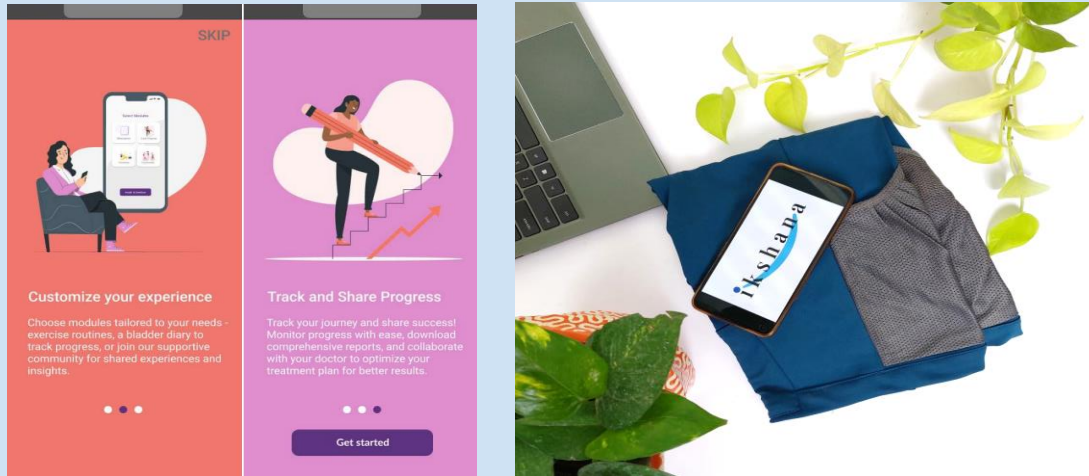
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Ikshana: An integrated system for adaptive urinary incontinence treatment uses an electrical stimulation platform with high-frequency currents, wearable nylon-based fabric electrodes, and a discreet user-controlled application. This innovative system enables convenient, anytime-anywhere treatment for urinary incontinence.



Achievements

- International Winners - W2W Competition, IEEE Women in Engineering, IEEE USA, June 2022
- Winners - ASME Idea Lab, ASME USA
- Finalists - National Bio-Entrepreneurship Competition, BREC C-CAMP India
- Runner Up - Falling Walls Lab Bangalore, September 2023
- Winners - ASME ISHOW, India 2024, ASME USA, April 2024



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Portable Ultrasound Imaging Device

This innovative ultrasound system represents a significant advancement in diagnostic imaging technology. Engineered with cutting-edge signal and image processing algorithms, it delivers high-quality imaging through optimized beam patterns and advanced filtering techniques in a compact design. It includes gender masking technology to prevent misuse and is designed to improve healthcare accessibility in both urban and rural areas.



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LIVETHEMOMENT NEURAL INTERFACES PRIVATE LIMITED

Screening Tool for Abnormal Signals in the Human Brain: **LTM** Neural

Detect abnormality in brain function at an early or subclinical stage of a disease or disorder that would serve as warning signals for individuals. The abnormal signals can present themselves in various situations like tumour, injury, seizure, dementia, schizophrenia, depression, and anxiety and hence can be used as screening tools to alert individuals for unusual and possibly detrimental brain function. Developed a multimodal neural interface that is able to capture and process normal and abnormal brain signals.



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BiliSURE: A non-invasive device that accurately measures bilirubin levels in newborns, facilitating early detection and management of neonatal jaundice. This innovative technology ensures swift, safe diagnostics without the need for painful blood draws.

The optical technology and AI algorithm of BiliSURE were validated through extensive testing on colour samples, ensuring the device's accuracy and reliability in various scenarios. In clinical trials conducted at two medical centres in Lucknow, BiliSURE was rigorously tested on over 700 neonates, demonstrating its effectiveness in accurately detecting bilirubin levels non-invasively and aiding timely medical interventions for neonatal jaundice.



Achievements

- Winner - National Bio-Entrepreneurship Competition
- TSEC - TOP 5
- Electronic Industries Association Of India (ELCINA) - Best Startup
- The Tribune - Startup of the year

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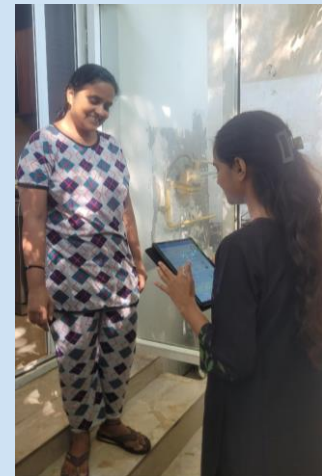
MERI HEALTH PRIVATE LIMITED

Our Phygital Platform empowers communities with proactive wellness monitoring and management by trained community health workers taking community Ownership for overall wellness reducing the burden on medical infrastructure. Aggregating Best of medical innovations' cutting edge technology enabling non-invasive medical checkups, Teleconsultation using remote medical IoT devices, Digital Health records, and follow-up & Adherence support. The platform will be complying with ABDM guidelines. Registered already for ABDM SandBox.



Achievements

- Selected as an Incubatee of Meity - NASSCOM centre of excellence for AI & IoT in Healthcare
- Accepted by Google as a Startup for AI
- Working with India's First ever Disease Prevention Cohort at GIMS (Government Institute of Medical Sciences) Incubator
- Part of Liftoff Spark Cohort 9.3 - A joint Program by STPI and Wadhvani Foundation



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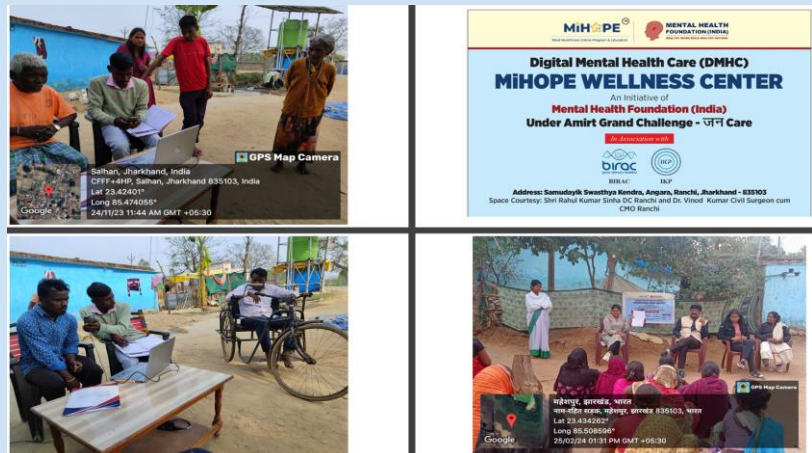
MENTAL HEALTH FOUNDATION (INDIA)



Mind Healthcare Online Program and Education (MiHOPE®):

The software features tested include Digital Health Records (for mental health-related issues), conduction of live remote Tele-Consultations, Local coordinator and doctor user profile profile maintenance and prescription generation as per the National Tele-Medicine Guidelines of MoHFW.

The MiHOPE® software, which is considered under the trademark Classes 44, 41 and 9 for word and device marks respectively, has completed its testing and field implementation of operations as a fully functional telemedicine software specializing in tele-mental health services.



Achievements

- Completed field testing with 247 consultations at the Ranchi Centre
- Delivered 3,751 consultations across 4 centres in Rajasthan and 2 in Uttar Pradesh
- Facilitated 3,998 consultations across all 7 centres, serving over 2,200 unique patients with both new and follow-up consultations

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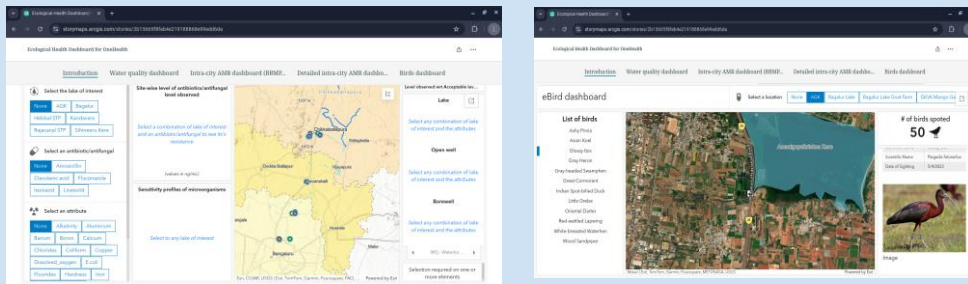
MOLECULAR SOLUTIONS CARE HEALTH PRIVATE LIMITED



A Digital Dashboard for Wastewater Re-Use: A OneHealth Approach to Determining the Impact of “Kere Sanjeevani” Project and Wastewater Based Agricultural Irrigation.

OneHealth and sustainability are key concepts, but assessing their impact can be complex. The Kere Sanjeevani program, a major global wastewater recycling initiative, revitalizes lakes in southern Karnataka. Its dashboard allows users to monitor water quality, pathogens, chemicals, terrain changes, and ecological rejuvenation in real time. Enabled the creation of a comprehensive dashboard real-timeng all data into a single platform.

Dashboard link: <https://storymaps.arcgis.com/stories/2b13665f8feb4e219188868e99edd6da>



Achievements

- One Health-Sustainability Tracker - First example is applied to the Kere Sanjeevani project, one of the largest water experiments globally
- Fogarty Fellow - Hosted from the University of Minnesota for one year
- Transdisciplinary AMR Lab - a collaborative coalition with Swasti Health Catalyst, Catalyst Management Services, Biome Environmental Trust, Minor Irrigation Dept, and local communities
- Government Support - Presented dashboard to UP government; received support from the Directorate of Environment for a similar project in Kanpur

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REKINDLE AUTOMATIONS PRIVATE LIMITED

Smart Intravenous Dripper

The product monitors, alerts and controls the level of fluid in the IV line automatically without the need for the nurse to be physically present, thereby preventing fatal Air Embolism and Blood Backflow.



A patented technology (Patent Number: 303973), when integrated into the healthcare system can potentially disrupt the healthcare automation sector.

The nurse can effectively monitor and control the flow rate of multiple patients at the same time using a unified interface to ensure total control and seamless monitoring of the patients admitted with Intravenous therapy in their hospital.

Achievements

- Chinnikrishnan Innovation Award
- Medical Innovation Award
- Patented Granted - 303973

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RESPIRIT HEALTHCARE PRIVATE LIMITED



Respirit Healthcare

An integrated respiratory health ecosystem for remote diagnosis and management of lung diseases. This ecosystem consists of physical lung clinics, Respirit mobile app and an ultrasonic respiratory device.

Development of a smart respiratory device using ultrasonic technology that can measure 22 lung function parameters, oxygen saturation, temperature & pulse remotely and in real-time.



Achievements

- Onboarded 10,000+ respiratory patients on our platform

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RIPPLE HEALTHCARE PRIVATE LIMITED

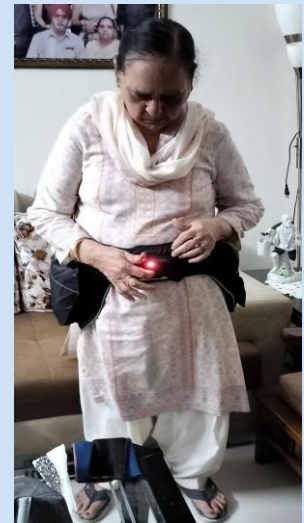


Hip Pro+

An IoT-enabled smart wearable device with protective cushions covering hip bones. The belt is worn across the waist. The protective cushion is inflated < 0.5 seconds from the time of detection of change in posture.

Achievements

- Shortlisted for the final round of SHARK TANK INDIA Season 3
- Runner-up position (75K as prize money) - EUREKA' 23, Asia's largest Business plan competition at IIT Bombay
- Winner - NBEC 2022 from BIRAC
- Most Entrepreneurial and Audience Choice award - Falling Walls Lab, India
- Audience choice award - Innovation Week competition, Germany



Grants

- 50L: BIG from Dept. of Biotechnology, GOI (30L)
- 10L: Amrit Jan Care from Dept. of Biotechnology, GOI (10L)
- 7L: TIDE from Dept. of Electronics and Telecommunication, GOI
- 8L: Nidhi Prayas from Dept. of Science & Technology, GOI
- 5L: Indus CSR grant (4.5L)
- 10L: CSR HDFC Parivartan Scheme (credited in March 2024)



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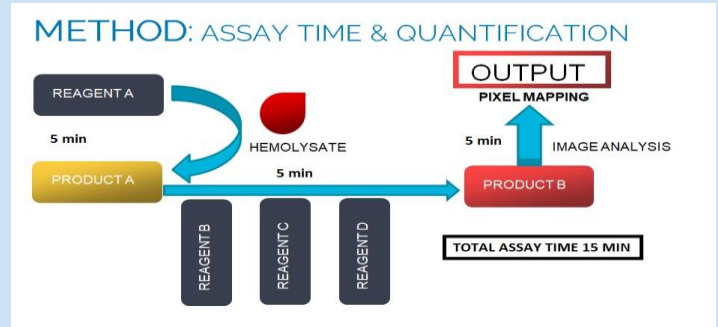
SENSOVILLE PRIVATE LIMITED



HEMOSCREEN Kit:

Screening of several protein folding diseases like Haemoglobinopathy (HbPY), Wilson Disease, and Type 2 Diabetes. The Hemoscreen pilot project will deal with HbPY variants.

- Optimized Hemoscreen parameters including reaction stoichiometry for optical detection
- Optical and spectral determination of HbPY variants like sickle cell anemia, and thalassemia (major as well as carrier)
- Validation of Hemoscreen on a statistically significant number of patient samples



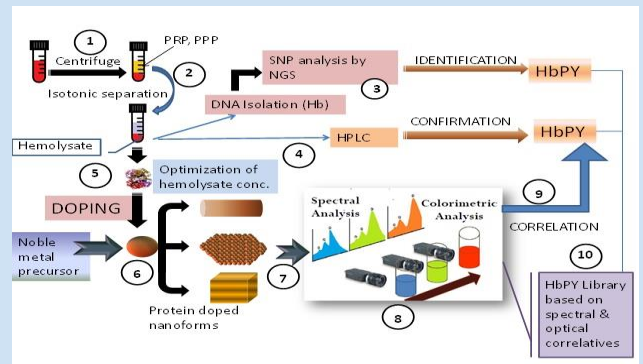
Achievements

- Part of this project has been patented with Patent No: 542599

Contact:

Dr. Shibsekhari Roy

shibsekhariroy@gmail.com



SHOONYATVAM FOUNDATION



Dawa.ai: AI-powered SaaS Solution for Retail Pharmacies

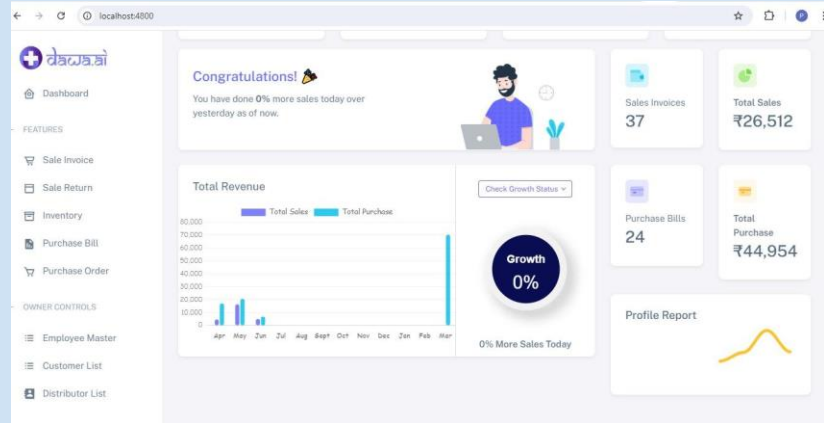
Achievement

- Selected for NSRCEL

Contact:

kushal@dawaai.co.in

[Dawa.ai \(dawaai.co.in\)](https://dawaai.co.in)



SMART HOME HEALTHCARE SOLUTIONS PRIVATE LIMITED



URHAB

URHAB is an online physiotherapy and digital rehab platform used for exercise prescription and tracking of adherence by patients.

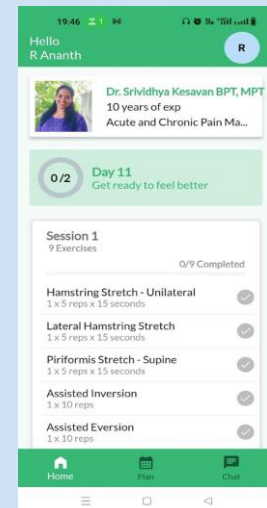
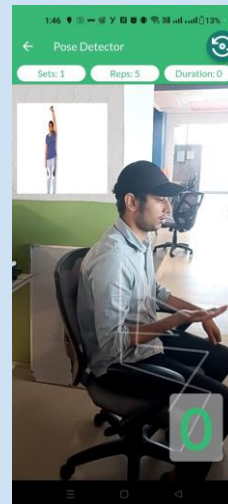
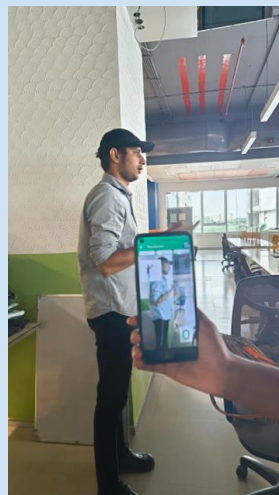
Developed a video consultation module that allows physiotherapists to measure the active range of motion (AROM) of the patient on the other side using AI.

Contact:

Arun Kumar Ramasamy

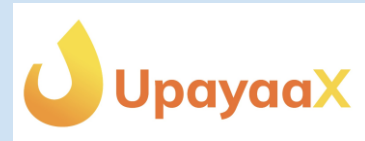
arun_cts@yahoo.com

<https://www.urhab.com>

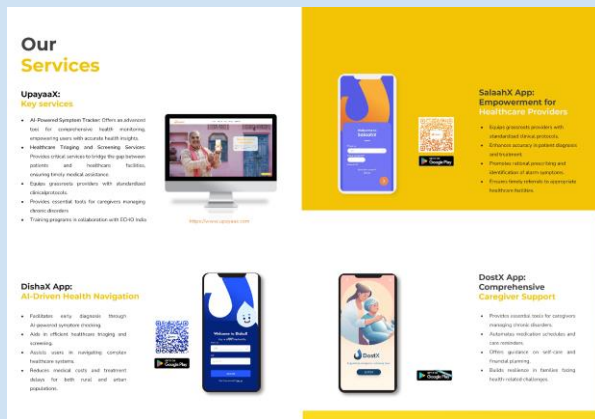


UPAYAA HEALTH PRIVATE LIMITED

UpayaaX: Healthcare Navigation and Triaging Digital Products
Using AI for Physical and Mental Health



Upayaahealth works in healthcare and AI. Its umbrella of services is called UpayaaX under which it is offering digital apps called **DishaX**-Healthcare navigation, **SalaahX**- Standardised consults and **DostX** which is for caregiver support for families dealing with chronic diseases. It also delivers training to healthcare providers for health AI.



Achievements

- Shortlisted - Senior Care Ageing Growth Engine 2024
- Completed Stanford Seed Spark 08 South Asia March - July 2024 Cohort
- Conducted pilot runs using AI-enabled symptom checkers across Bengal and Maharashtra

Contact:

Dr. Sachin Ganorkar

sachinganorkar19@gmail.com

<https://www.upayaax.com/>

FASTSENSE INNOVATIONS

FastSense
Innovations

PCOS-Screen

Polycystic Ovary Syndrome (PCOS) affects **1 in 4 women of reproductive age worldwide**, yet often goes undiagnosed due to limited access to effective screening tools. Introducing **PCOS-Screen**, a cutting-edge, digitally-enabled point-of-care device utilizing advanced immunoassay technology to accurately identify critical hormone levels associated with PCOS.

Complemented by the intuitive app, "**her-Shakti**", women can effortlessly understand their symptoms, receive personalized medical advice, and take proactive steps towards better health. This comprehensive solution is especially transformative for women in remote and resource-constrained regions, where healthcare access is limited and women's health is frequently overlooked.



Contact:

Dr. Preeti Nigam Joshi

preetijoshi@fastsensediagnostics.com

www.fastsenseinnovations.com

KAVYASHREE VENKATESH

Dhwani: A holistic rehabilitation solution for children with hearing impairment

Dhwani is an integrated platform comprising of a mobile application to assist and monitor home-based speech therapy, integrated with an interactive response device in the form of smart toys to track responses from the child during speech therapy. This system also integrates with a dashboard designed for therapists and other clinicians to monitor the progress of the child.



*Dhwani- Integrated System
testing of the application*



User

Achievements

- An Indian Patent is granted - ‘An integrated hearing aid system to assist and monitor home-based speech therapy’
- Winner - National Bio Entrepreneurship Competition (NBEC), 2024-Student Category
- Winner at the International Knowledge Millennium Conference (IKMC), 2022 organized by IKP Knowledge Park and Medical Devices category (Prototype Stage)

Contact:

Kavyashree Venkatesh
Indian Institute of Science, Bengaluru
kavyashree.venkatesh@gmail.com

APPENDIX

Ashva Wearable Technologies, Bangalore



Fitknees - A Sensor-Based System For Prevention And Monitoring The Progress Of Athletes With Lower Body Injuries.

Current TRL: 8

Contact Details

Anmol Saxena

ashvaweartech@gmail.com

<https://ashvaweartech.com/>

Parisodhana Technologies Pvt. Ltd., Hyderabad



Neonatal Transport

Current TRL: 6

Contact Details

Satyanarayana Kuchibotla

kuchibhatlas@parisodhana.org

<https://www.parisodhana.com/>

Chrogene Aarogyam Biotech Pvt Ltd, Hyderabad



Automated Sickle Cell Disease Screening and Data Sharing at Point of Care for Inclusive Implementation of Digital Health

Current TRL: 5

Contact Details

Dr. Poongothai AR

poongothaiar@gmail.com

<https://www.chrogeneaarogyam.com/>

Rampalli Viswa Chandra

A Low-cost Digital Occlusal Analysis System for Analysis of Errant Bite Forces and Jaw-Joint Disorders

Current TRL: 7

Contact Details

Dr. Rampalli Viswa Chandra
viswachandra@hotmail.com

Ayur AI



AyurDoc - Personalized digital health & wellness solutions

Current TRL: 5

Contact Details

Dr. Bala Pesala
balapesala@gmail.com
<http://ayur.ai/>

Backyard Creators

Non-Surgical Hearing Device

Current TRL: 4



Contact Details

R. Ramnan & Lakshmanan
backyardcreators01@gmail.com
<https://backyardcreators.com/>

Bramhansh Technologies Private Limited

Early Detection of Anxiety, Depression Episodes & Assistance in Therapeutic Practices with AI-Driven Bio-Feedback To Avoid Suicidal Tendency



Current TRL: 4

Contact Details

Jaideep Tiwari

jaideep@bramhansh.in

https://bramhansh.com/pages/quantum_sub

MedloTek Health Systems Private Limited

VinCense Hybrid DNN Cuffless Hypertension and non-invasive anemia risk detection



Current TRL: 4

Contact Details

Sharmila Devadoss

sharmila.d@vincense.com

<https://www.vincense.com/>

Achala Health Services Private Limited

Elro-OTT Omni channel delivery of healthcare



Current TRL: 5

Contact Details

Jyotish Varma

info@achalahealth.com

<https://www.achalahealth.com/>

Adiuvo Diagnostics Private Limited



WoundTele.AI - Teleconsultation application for remote monitoring of wounds through an AI-based advanced wound analytics

Current TRL: 6

Contact Details

Geethanjali Radhakrishnan
geethanjali@adiuvodiagnosics.com
<https://www.adiuvodiagnosics.com/>

Adsys Medtech Pvt Ltd



Point of care device for Complete Blood Count

Current TRL: 4

Contact Details

Hardik Sharma
hardiksharma226@gmail.com
<https://adsys.in/>

AI Kalpa Private Limited



AI-Based Advanced Clinical Visualization Vendor-Neutral Viewer For Disease Progression, Tracking And Analytics

Current TRL: 4

Contact Details

Dr. Digvijay Singh
drsingh.digvijay@gmail.com
www.kalpah.com

AISense LLP

AiSense: Sensing Disease with Ease Using Artificial Intelligence and Bio-Signals



Current TRL: 6

Contact Details

Dr. Santosh Bothe

santoshbothe@gmail.com

<https://aisense.co.in/>

Amivya Healthcare Private Limited

Blockchain-based personal health records management tool integrated over ABDMs Health ID



Current TRL: 5

Contact Details

Dr. Amitesh K

dramiteshk@gmail.com

<https://amivyahealthcare.com/>

Amrita School of Biotechnology



Modeling of Drug - loading biopolymers with high specificity and selectivity by artificial intelligence approaches

Current TRL: 2

Contact Details

Dr. Renuka Suravajhala

renus@am.amrita.edu

<https://www.amrita.edu/school/biotechnology/>

Arcapsis Technosolutions Private Limited

XpertHaler- An AI and ML-based COPD and Asthma Management Solution



Current TRL: 6

Contact Details

Nitin Awasthi

awasthi@arcapsis.com

www.arcapsis.com

Ayusla Private Limited

Precision Dietary-Nutrition Intelligence Platform

Current TRL: 4

Contact Details

Rishi Agarwal

rishigre294@gmail.com

Birla Institute of Technology and Science Mesra

Development of Intelligent Blockchain techniques for providing efficient management and storage security solutions for E-healthcare



Current TRL: 5

Contact Details

Dr. Shamama Anwar

itusnigd@bitmesra.ac.in

<https://www.bitmesra.ac.in/1>

Core Idea Innovations Private Limited

Virtual reality-based” tele-eye testing” device for the measurement of spectacle power of the eye.



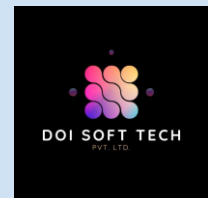
Current TRL: 5

Contact Details

Dr. Maheswari Srinivasan
maheswariishayoga@gmail.com
<https://coreideainnovations.com/>

DOI Soft Tech Pvt. Ltd.

India’s 1st Medical Scribe AI for summarizing Hindi+English doctor-patient interactions and thereby saving 2 hours of daily documentation time for doctors and insurance companies



Current TRL: 3

Contact Details

Saswat Pattnaik
saswatpattnaik98@gmail.com

Dr H N Suma

AI Scribe - Clinical documentation support for doctors

Contact Details

Dr H N Suma
dr.hnsuma@gmail.com

Current TRL: 5

Dr. Prashant Kokiwar

Efficacy of asynchronous video observed treatment compared to 99-directly observed treatment
99 DOTS on treatment adherence of tuberculosis among adult drug-sensitive tuberculosis patients:
An open-label randomized controlled superiority trial

Current TRL: 1

Contact Details

Dr. Prashant Kokiwar
pkokiwar@yahoo.com

FastSense Diagnostics Pvt Ltd

Point-of-Care Screening Device for Polycystic Ovarian Syndrome PCOS:
An unmet need

Current TRL: 3

Contact Details

Dr. Preeti Joshi
preetijoshi@fastsensediagnostics.com
<https://www.fastsenseinnovations.com/>

**FastSense
Innovations**

Fireside Technologies Private Limited

Technology-led Parent-Mediated Therapy for Children with Developmental
Difficulties

Current TRL: 4

Contact Details

Amal Kiran
amal@daffodilhealth.com
<http://www.firesidetechnologies.com/>



G.H.Raisoni College Of Engineering, Nagpur



Smart Web-based application for Dental disease detection using Artificial Intelligence

Current TRL: 4

Contact Details

Dr. Vibha Bora

vibha.bora@raisoni.net

<https://ghrce.raisoni.net/>

Gandhi Institute of Technology and Management



Design and development of a medical device using artificial intelligence for telemedicine applications in rural India

Current TRL: 4

Contact Details

Dr. Mani Kumar

mani.k.ele@gmail.com

<https://www.gitam.edu/>

Harsh Kankariya

Smart Eyedrop Bottle holder to monitor medication compliance

Current TRL: 4

Contact Details

Harsh Kankariya

harshkankariya39@gmail.com

Inovocare Healthsoft Solutions Pvt. Ltd.

Non-Invasive Baro Reflex Assessment - Combined System NIBRA-CS



Current TRL: 6

Contact Details

Rohan Tripathi
inovocare.kol@gmail.com
<https://www.ihsbharat.com/>

Jagadeesh Gandla

Global Life Sciences and Healthcare Network

Current TRL: 6

Contact Details

Dr. Jagadeesh Gandla
gandla.jagadeesh@gmail.com

JSS Dental College And Hospital

Machine Learning-based smart mobile application for detecting clinical dental fluorosis



Current TRL: 7

Contact Details

Dr. Raghavendra Shanbhog
drraghu.kiddoc@gmail.com
<https://jssuni.edu.in>

Kavitha S Murugesan

A Java-based low-cost user-friendly stand alone as well client-server architecture computer-aided system for diagnosis of middle ear pathologies based on a hybrid learning framework using videos captured through a digital otoscope with a camera

Current TRL: 4

Contact Details

Dr. Kavitha S Murugesan
hodcse2004@vedavyasa.org

Kavyashree Venkatesh

Dhwani: A Holistic Rehabilitation Solution for Children with Hearing Impairment

Current TRL: 4

Contact Details

Kavyashree Venkatesh
kavyashree.venkatesh@gmail.com

Kidambi Sneha

A specialized toothbrush with a combined rinsing and suction system for usage in bedridden and paralyzed patients

Current TRL: 3

Contact Details

Dr. Kidambi Sneha
kidambi.sneha@gmail.com

Periwinkle Labs Private Limited

An integrated system for adaptive stimulation treatment of urinary incontinence



Current TRL: 4

Contact Details

Komal Shah

komalshah@iisc.ac.in

<https://www.periwinkletech.com/>

Kstri Innovations Private Limited

Digitising wellness



Current TRL: 3

Contact Details

Dr. Rupali Gupta

rupaliji@hotmail.com

<http://www.yoshha.com/>

Lifespark Technologies Private Limited

Improved Stroke Rehabilitation using Mixed Reality and AI



Current TRL: 5

Contact Details

Amey Desai

amey@lifesparktech.com

<https://www.lifesparktech.com/>

MedBlue Innovations Private Limited



An affordable non-invasive bilirubin measurement device for Neonates

Current TRL: 6

Contact Details

Jitesh Pandey
sendtojitesh@gmail.com
<https://medblue.in/>

Meri Health Private Limited

Meri Health Phygital Community Health Aggregator Initiative



Current TRL: 4

Contact Details

Ramesh K Verma
rameshkverma47@gmail.com
<https://www.meri.health/>

Mirnow LLP

A miRNA-based early diagnostic model for prostate cancer



Current TRL: 6

Contact Details

Garima Jain
intgarima@gmail.com
<https://bionestbhu.org/Page/companiesdetail/mirnow-llp-11>

Molecular Solutions Care Health LLP

A Digital Dashboard for Wastewater Reuse: A OneHealth Approach to Determining the Impact of “Kere Sanjeevani” Project and Wastewater Based Agricultural Irrigation.



Current TRL: 9

Contact Details

Dr. Varsha Sridhar

chmolecularsolutions@gmail.com

<https://www.molecularsolutionscarehealth.com/>

Nex Fitzap Private Limited

AI-based screening of cataract disease from smartphone images



Current TRL: 7

Contact Details

Priyanjit Ghosh

priyanjit.ghosh@logy.ai

logy.ai

Dr. Nikunj Arunkumar Bhagat

NeoStim: A Neuromuscular Stimulation Enabled Orthosis to Rehabilitate Grasping in Hemiplegia

Current TRL: 5

Contact Details

Dr. Nikunj Bhagat

nbhagat08@gmail.com

Plebc Innovations Private Limited

A Tele Operated Robotic Ultrasound System

Current TRL: 3

Contact Details

Dr. Venkata Krishna Prasad

p15venkatakpb@iima.ac.in

<https://www.plebc.com/>



PSG Institute of Technology and Applied Research

Wearable thoracic fluid content measurement device for congestive heart failure patients

Current TRL: 4

Contact Details

Dr. Jayasanthi Ranjith

jayasanthiranjith@psgitech.ac.in

<https://psgitech.ac.in/>



Aizheimers Private Limited

AI-based Pre-emptive Screening Platform for Alzheimers

Current TRL: 4

Contact Details

Dr. Rangan Ghosh

ghosh.rangan@gmail.com

<https://www.aizheimers.org/phase24>



Rekindle Automations Private Limited

A Smart Intravenous Dropper System For Centralized Monitoring And Automatic Stopping Of Intravenous Fluid



Current TRL: 8

Contact Details

Radha Krishnan

jps.radhakrishnan@gmail.com

Rymo Technologies Private Limited

Extensive testing for life cycle validation and software optimisation of Mobil: Upper & Lower Limb Robotic and VR-Based Rehabilitation Solution



Current TRL: 9

Contact Details

Chirag Shah

chirag@rymo.in

<https://www.rymo.in/>

Dr. Shailesh Pangaonkar

AI-assisted Dementia Care: A solution that provides comprehensive recovery and upgrades the culture of care

Current TRL: 5

Contact Details

Dr. Shailesh Pangaonkar

pangaonkar11@gmail.com

Shoonyatvam Foundation

Quick Commerce of Healthcare Products and Services

Current TRL: 8

Contact Details

Kushal C Ingole

kushal.iitb@gmail.com

Dawa.ai (dawaai.co.in)



St. Johns Research Institute, Bangalore

DietRecall

Current TRL: 6

Contact Details

Dr. Tinku Sarah

tinku.sarah@sjri.res.in

<https://www.sjri.res.in/>



Sumandeep Vidyapeeth

Teleferti- A Solution to Infertility

Current TRL: 6

Contact Details

Dr. Vrutiben Patel

vruticpatel@gmai.com

<https://sumandeepvidyapeethdu.edu.in/>



Sumandeep Vidyapeeth

Mobile Application for Training and Evaluation of Misarticulation in Children

Current TRL: 3



Contact Details

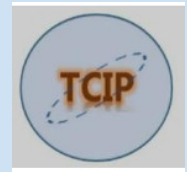
Dr. Vikash Singh

vikash99jitushobha@gmail.com

<https://sumandeepvidyapeethdu.edu.in/>

Techsolver Communications and Innovative Platforms Private Limited

Prothrombin time testing using smart digitalized sensing of paper-based assay for low-resource settings



Current TRL: 7

Contact Details

Dr. Santhanu Bhattacharya

techcip.pvtltd@gmail.com

University of Petroleum and Energy Studies

Non-invasive diagnostic tool for Diabetic Retinopathy using lightweight Intelligent Applications and Fundus photography



Current TRL: 4

Contact Details

Dr. Shamik Tiwari

shamik.tiwari@ddn.upes.ac.in

<https://www.upes.ac.in/>

Upayaahealth (OPC) Private Limited

Mental Health, Primary care protocols digital learning systems, Products Analytics, AI/ML



Current TRL: 9

Contact Details

Dr. Sachin Ganorkar
sachinganorkar19@gmail.com
<https://www.upayaax.com/>

Dr. Uttara Chakraborty

Developing a diagnostic tool using real-time single-cell imaging and machine learning for the detection of Acute Leukemias in India



Current TRL: 7

Contact Details

Dr. Uttara Chakraborty
uttara.chakraborty@manipal.edu
<https://www.manipal.edu/mu.html>

Uttaranchal University

Healthcare 4.0: AI-assisted application for ASHA workers to improve community outreach



Current TRL: 7

Contact Details

Dr. Anita Gehlot
dranitagehlot@gmail.com
<https://www.uudoon.in/>

Vwin Bio Products Private Limited

The electrolysis of the Salt solution produces the Disinfectant.

Current TRL: 5

Contact Details

Udaya Kumar

aum.udayam@gmail.com

<https://vwinbio.in/>



W4talent LLP

W4Talent is developing a neural network-based platform called μ Xpress that identifies and analyses concealed human expressions which is used to treat clinical depression and other mental disorders to predict suicidal tendencies in patients

Current TRL: 3

Contact Details

Mamta Bhat

email ID: magnificentmamta@gmail.com

Globsol Innovation Labs Private Limited

GAITWay: An intelligent platform to aid in fall assessment, early detection of neurological disorders and tracking disease progression in elderly

Current TRL: 4

Contact Details

Sabari Prabaaker

sabari@globsolinnovationlabs.com



Livethemoment Neural Interfaces Private Limited

POC testing and Pilot Validation of Neural Interface for identification of abnormal brain data in neurology/ neuro-psychiatric clinic



Current TRL: 4

Contact Details

Mohit Virmani
mohit@livethemoment.co
www.livethemoment.co

Ripple Healthcare Private Limited

A more acceptable and effective way to prevent hip fractures in the elderly due to falls.



Contact Details

Kaushal Kothari
kaushalkothari22@gmail.com
<https://www.ripplehealthcare.in/>

Lenek Technologies Private Limited

A made-in-India portable ultrasound Machine



Current TRL: 2

Contact Details

Anish Kaul
anishkaul1996@gmail.com
<https://www.lenektech.com/>

SMART Home Healthcare Solutions Private Limited

AI-Based Tele-Physiotherapy Treatment & Compliance Mobile App

Current TRL: 6

Contact Details

Arun Kumar

arun_cts@yahoo.com

<https://www.aeglepro.com/>



Adarsa Private Limited

Our mission is to democratize health screening, we are developing medical-grade, accurate, and portable diagnostics Health ATM with app and telehealth to check vitals, a multitude of tests across various parameters, and provide results in minutes.

Current TRL: 9

Contact Details

Sandeep Bhatia

sandeep@adarsa.in

<https://adarsa.in/>



Respirit Healthcare Private Limited

To develop a complete respiratory health ecosystem to manage lung diseases

Current TRL: 4

Contact Details

Dr. Smitakshi Medhi

smitakshi1985@gmail.com

<https://www.respirithealth.com/>



Navyukti Innovations Private Limited

Non-invasive optical device for anaemia detection to facilitate semi-urban and rural Indian population

Current TRL: 4

Contact Details

Dr. Sangeeta Kale

navyukti.innovations@gmail.com

<https://diat.ac.in/incubation-center/>

Sensoville Biotech Private Limited



Hemoscreen - A Rapid and Economic Highly Sensitive Detection Platform for Hemoglobinopathy

Current TRL: 5

Contact Details

Dr. Shibsekhar Roy

sensoville2022@gmail.com

AccelRD Sciences Private Limited

IoT-enabled portable point-of-care screening test kit for the estimation of Down Syndrome risk in pregnant women during their first trimester



Current TRL: 3

Contact Details

Dr. Raviprasadh Rajasekaran

accelerdsciences@gmail.com

SIAMAF Healthcare Private Limited

Magnetic biosensor device for a highly sensitive and rapid detection of bacteria in complex matrices.



Current TRL: 3

Contact Details

Dr. Subhasis Sarangi
siamaf.healthcare@gmail.com
<https://siamaf.com/>

NT Labs Private Limited

NeuroBuds: Brain Mapping Wearable



Current TRL: 6

Contact Details

Nitin Vasanth
nitin@neurotech.in
<https://www.neurotech.in/>

Mental Health Foundation India



Digital Mental Health Care DMHC and well-being program: in Primary/Community Healthcare Centres in Chatra & Ranchi district of Jharkhand

Current TRL: 9

Contact Details

Dr. Nand Kumar
mihope.mhfindia@gmail.com
<https://mhfi.in/>

Augmented Medicine Private Limited

An Affordable, Accurate And Noninvasive Volume Clamp-Based Blood Pressure Waveform Measuring Device.

Current TRL: 3

Contact Details

Dr. Sitikantha Roy
sitiroy@gmail.com

Jaypee Institute of Information Technology

Fundus image-based diagnosis and clinical decision support system for early prediction of glaucoma and grading of diabetic retinopathies



Current TRL: 2

Contact Details

Dr. Megha Agarwal
drmegha.iit@gmail.com
<https://www.jiit.ac.in>

BIRAC - An Ecosystem Enabler

Funding and Beyond

Biotechnology Industry Reseach Assistance Council (BIRAC) is a not-for-profit section 8, schedule B, Public Sector Enterprise, set up by Department of Biotechnology (DBT) Government of India is an Interface Agency to strengthen and empoeer the emerging Biotech enterprise to undertake strategic research and innovation, addressing high unmet needs through development of affordable products and technologies.



BIRAC Schemes and activites are meant to create a pipeline of entrepreneurs & Startups in the country by providing systemacic and value-added hand holding during the journey of a idea maturing into a product for commercialization.

BIRAC IMPACT

10+ YEARS OF BIRAC

Nurturing & Strengthening Biotech
 Innovation Enterprise

95
 Incubation
 Centres

35000+
 High skilled
 jobs created

15 Lakh+
 Students/
 entrepreneurs
 engaged

4800+
 Startups/other
 beneficiaries
 supported

800+
 Products in
 market

28000+
 Proposals
 assessed

5500 Cr+
 Follow-on-funding
 raised by >130
 Startups

100+
 National &
 International
 Partnerships

75000 Cr+
 Startup
 Valuation

400+
 Academia
 Supported




10,000+
 Mentor Pool

4000 Cr+
 BIRAC
 Funding

6600 Cr+
 Total
 Investment

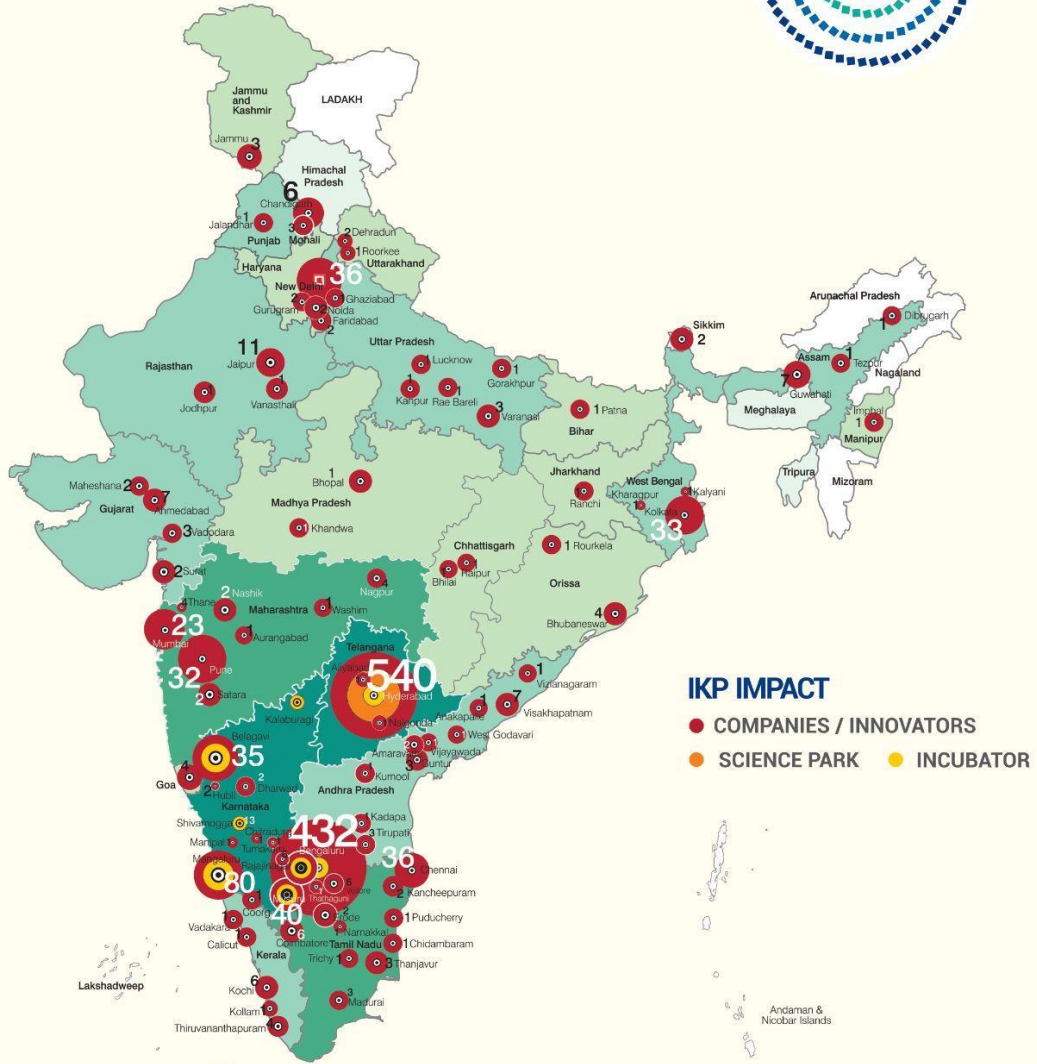
2600 Cr+
 Co-funding by
 Industry &
 Others

www.birac.nic.in

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Biotechnology Industry Research Assistance Council

INDIAN SCIENCE PARK WITH GLOBAL REACH



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- COMPANIES / INNOVATORS
- SCIENCE PARK
- INCUBATOR

INNOVATOR SUPPORT

- Touched 12,000+ innovators across 90+ cities in India
- ~1500 companies and innovations
- 1000+ unique startups

INVESTMENT MULTIPLIER



JOBS GENERATED Direct: 14,000+ • Indirect: 56,000+

SUPPORT BY



WITH SUPPORT FROM

