# https://iriic.uiu.ac.bd/research-areas/health-wellbeing/

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# Health & Wellbeing

At IRIIC, we are dedicated to advancing health and wellbeing through innovative research, technology, and solutions. By leveraging cutting-edge technologies like Artificial Intelligence, Data Science, and Augmented Reality, we aim to improve healthcare delivery, enhance patient care, and support overall community health. Our research projects focus on developing AI-powered diagnostic tools, virtual health applications, and data-driven healthcare models that improve access, efficiency, and outcomes. We collaborate with healthcare providers, industry leaders, and academic institutions to create solutions that address both physical and mental health challenges, ensuring that the well-being of individuals is at the heart of our work. With a focus on social responsibility, we strive to create a healthier, more sustainable future for Bangladesh and beyond, making a meaningful impact on societyâ€™s health and quality of life.

## The Role of Health & Wellbeing in Todayâ€™s World

Health and wellbeing are essential for enhancing quality of life and productivity in todayâ€™s fast-paced world. With advancements in healthcare technology, digital health platforms, and personalized medicine, individuals can better monitor their health and access remote healthcare services. Mental health is gaining recognition as a vital aspect of overall wellbeing, leading to increased focus on emotional resilience and stress management. Healthy lifestyle choices, including nutrition and fitness, are crucial in preventing chronic diseases. As health challenges evolve, prioritizing health and wellbeing is key to building resilient communities and achieving sustainable development.

## Projects Related to Health & Wellbeing

### SmartEndo

SmartEndo SmartEndo: An AI-Powered Screening Tool for Endometriosis Risk Assessment Endometriosis is a growing public health concern, affecting 1 in 10 women of reproductive age gl

### Symptom Checker

Symptom Checker Empowering primary healthcare decisions with an AI-driven symptom checker tailored for personalized health guidance. Digital symptom checker tools have become popul

### CMED

Cloud based Medical System for Rural Health Monitoring in Developing Countries

### Autism Barta

Autism Barta - A smart device based automated autism screening tool for Bangladesh

## Bolte Chai

Bolte Chai: An Android Mobile Application to Support Verbally Challenged ASD Children

## CKD

Comprehensive Risk Assessment and Early Prediction of Chronic Kidney Disease

## Virtual Hospital

An IoT based Intelligent Home Health Monitoring and Referral System

## Deep Depression

BCI Based System for Identifying Depression through Neural Connectivity Analysis

## iCRP

An Intelligence CVD Risk Profiling for early identification of Myocardial Infarction and Stroke

## Virtual Eye Doc

Virtual Eye Doc: A Cloud Based Smart Application for Eye Care in Bangladesh

## PVDoctor

Cloud based Virtual Doctor for Parkinson's Disease Screening and Monitoring

## Prescription Audit System

AI based Prescription Audit System for secure and efficient healthcare.

## Cog-i

Smart tool for screening, resource mapping, and increasing awareness of Alzheimer's Disease.

## SuSastho.AI

An AI enabled solution for adolescents in Bangladesh

## AIMScribe

Automated and Intelligent Medical Scribing System for Doctor-Patient Conversation

## Access Teledentistry

Smart Tool for Screening, Consultation, Management and Referral of Oral Health

## CanAware

An interactive system for cancer awareness, education, screening and referral in Bangladesh

### Health & Wellbeing at IRIIC: Advancing Wellness through Innovative Research

At IRIIC, UIU, we prioritize health and wellbeing as fundamental pillars of sustainable development and human potential. Our research focuses on creating innovative solutions that enhance physical, mental, and social wellbeing through interdisciplinary collaboration. By integrating advanced technologies such as digital health platforms, wearable devices, and AI-driven health analytics, we aim to improve healthcare accessibility, preventive care, and personalized wellness experiences. We work closely with healthcare providers, industry experts, and community organizations to design impactful solutions that address real-world health challenges. At IRIIC, we are committed to advancing health equity, promoting mental wellness, and fostering a culture of holistic wellbeing that empowers individuals and communities to thrive.

**Shaping the Future of Health & Wellbeing through Education and Training**

At IRIIC, we are dedicated to cultivating a generation of health innovators who can lead the transformation of healthcare and wellbeing. Through specialized internships, hands-on training, and mentorship programs, we equip students and young researchers with the knowledge and skills needed to address modern health challenges. From digital health solutions to mental wellness initiatives, our training programs foster holistic thinking and problem-solving abilities, empowering future leaders to design impactful health solutions that enhance quality of life. At IRIIC, we believe that by nurturing young talent, we are not only advancing healthcare technology but also shaping the future of health and wellbeing for a healthier, more resilient society.

**The Future of Health & Wellbeing at IRIIC: Looking Ahead**

As we look to the future, IRIIC is committed to revolutionizing health and wellbeing through innovative research and technology-driven solutions. We are exploring advancements in digital health, personalized medicine, and mental wellness to enhance healthcare accessibility and improve overall quality of life. With a focus on preventive care, health equity, and holistic wellbeing, we aim to empower individuals and communities to lead healthier lives. At IRIIC, our vision is to drive sustainable health innovation that not only addresses current challenges but also anticipates future needs, shaping a world where wellbeing is accessible to all.

## Join Us on Our Health & Wellbeing Journey

Whether youâ€™re a researcher, student, or community partner, thereâ€™s a place for you in our transformative journey of health and wellbeing innovation. At IRIIC, we believe in the power of collaboration and creativity to develop solutions that enhance physical, mental, and social wellbeing. Together, we can improve healthcare accessibility, promote holistic wellness, and empower individuals to lead healthier lives. Join us in our mission to advance health equity, pioneer digital health solutions, and shape a future where wellbeing is within reach for all.

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