IEEE i50 A Virtual Celebration of 50 Years of the Internet



AIUSE CASES of Bangladesh

ANIR CHOWDHURY Policy Advisor, a2i

#IEEE #IEEEI50 #ZeroDigitalDivide #GlobalDigitalCompact















National Helpline 333 >>>>

With **AI automated conversation, query capture, and information retrieval**, callers can now receive necessary Government service-related procedure information and govt. staff-related contact information.



HELPLINE FOR EVERYONE







CALL TIME REDUCTION 4 Minutes > 30 Seconds



3.2 Million Solution Solution



Al-based Pregnancy Nonitoring System

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This initiative, in collaboration with various health organizations such as a2i, DGHS, DGFP, OGSB, and ICDDR, B aims to enhance maternal and neonatal healthcare through the use of Al. The system establishes a two-way communication platform allowing pregnant women from various backgrounds to access timely health information and services. Key components include:

Interactive **Behavior Change AI Integration** Systems Communication Dissemination of targeted Use of phone-based, Identification of high-risk messages and collection of internet-based, IVR, chatbot pregnancies through advanced vital health data through a and wearable devices to data analytics, enabling timely digital ecosystem. provide emergency support and and personalized interventions. lifestyle guidance.



This approach not only improves healthcare delivery but also empowers women by providing them with knowledge and tools to manage their health proactively. It demonstrates the potential of AI to personalize healthcare, making it more accessible and effective





Use of PHONE-BASED, INTERNET-BASED, IVR, CHATBOT & **WEARABLE DEVICES** to provide emergency support and lifestyle guidance.





Al-based Poverty Mapping Tool for Beneficiary Selection

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Beneficiaries' selection using Mobile Data through Machine Learning (ML) model: The MobileAid model employs an innovative methodology called CIDER to target individuals living in poverty.

CIDER utilizes phone metadata (Call Detail Records) and machine learning to accurately predict the poverty status of individual mobile phone users based on their patterns of phone usage. This allows for the identification of individuals in need of aid.



With the support of GiveDirectly, a2i is currently implementing a pilot project that reaches

22,600 RECIPIENTS

in the Cox's Bazar and/or Bandarban districts of Bangladesh with direct cash transfers. The program is designed to target community members impacted by poverty in the most impoverished areas of Cox's Bazar and/or Bandarban districts, with a specific focus on women.



Muktopaath Platform offers Al-based course recommendations **MuktoPaath, one of the flagship innovations** of a2i now offers personalized learning to 2.2 million learners from all walks of life via AI-based course recommendations.

Over 600K teachers on Teacher's Portal can offer their knowledge, skills and expertise to their peers, while Konnect has 2.7 million enrolled learners as we speak.

22 million Learners

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MUKTOPAATH Al-based course recommendations



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600K Teachers

Of Teacher's Portal can offer their knowledge, skills and expertise to their peers



These initiatives, in collaboration with various government organizations such as a2i, Ministry of Education, Ministry of Primary and Mass Education, education directorates, and UN agencies, aim to enhance quality access to education and skills development through the use of AI. The government of Bangladesh set a purpose to create a Smart Bangladesh by 2041 through an educational transformation by the implementation of the revised National Curriculum.



A FIOOD Forecasting Initiative

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Based on cross-country border-based river data (ebbs & tides anomalies), Google and a2i have developed an Al Flood Forecasting Initiative a.k.a. FloodHub. It can notify 24-72 hours early to local authorities, covering 40 million people, and alert for prompt action-collective evacuation, disaster management, and further protection of water resources.

O V B L I D O

A million people Flood Forecasting Initiative a.k.a. FloodHub





IoT-based Smart Fish Farm Management

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Remarkable progress has been made in the priority sectors of Bangladesh such as Agriculture, Fisheries, and Livestock Management, etc. through various initiatives such as agricultural market insights, harvest optimization, smart farming, fish feeder, temperature maintenance, optimum incubation ecosystem metrics, etc.

The Department of Fisheries (DoF) has piloted an initiative to revolutionize fish farming in Bangladesh through the power of Internet of Things (IoT). This innovative solution, called the IoT-based Smart Fish Farm Management System, empowers fish farmers with real-time data, automated controls, and improved decision-making tools.



Monitor real-time water quality data (DO, temperature, pH)

Interactive Systems

The DoF utilized user-friendly interactive IoT based system to ensure easy access and control to:



Control automated systems like feeding, water management, and aeration



Receive alerts and notifications for any water quality deviations





Al Integration

Integration of Artificial Intelligence (AI) to enhance the system's capabilities to analyse fish growth and disease to recommend optimal feeding schedules to minimize waste and maximize efficiency.

Impact

The IoT-based Smart Fish Farm Management System aim to revolutionize aquaculture in Bangladesh through improved farm management practices leading to higher yields and greater profitability.







