Accelerating TB elimination in India to #EndTB by 2025 requires new stakeholders, approaches, and innovations. TRACE-TB seeks to harness India's technological prowess in digital AI solutions to improve diagnostics, surveillance, and treatment for TB.

TRACE TB

TUBERCULOSIS

WADHWANI AI

Oct 2020 - Sept 2024

COMMUNITIES SERVED
Tuberculosis patients

PROJECT LEAD
Dr. Neeraj Agrawal

GOAL
To introduce Artificial Intelligence (AI) solutions to prepare, prevent, detect, and respond to public health diseases like Tuberculosis

OBJECTIVES
1) Creating an enabling system to adopt digital and AI solutions to combat existing and emerging infectious diseases on a sustainable basis;

2) Engaging in research and development of innovative digital and AI solutions across the cascade of care to effectively manage infectious disease threats, and

3) Demonstrating the early adoption of efficient digital and AI solutions for existing and emerging infectious diseases

SUMMARY

learning 4 impact

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The purpose of the project is to introduce AI solutions for Infectious Diseases of public health importance like Tuberculosis (TB). The AI solutions developed and deployed are helping in preparing, preventing, detecting, and responding to infectious diseases in India. The project brings efficiency within existing resources by way of automation and thereby augment the Government of India's and other collective disease prevention and control efforts. Beyond AI solution development and deployment, the Project is aiding to evolve an ecosystem in the country to enable the sustainable use of data driven AI systems to accelerate ending TB and other infectious disease epidemics in India.

WORK DONE AROUND COVID-19

A. Surveillance, case finding, rapid response teams, case investigation, contact tracing, and point of entry: The project has developed epidemiological models, prediction and analysis tools that support administrators to inform their response strategies and support key decision making and policy changes specific to COVID-19 response using data. B. Case management (including helping health facilities prepare for and deal with surges of patients, continued access to essential health services): The project has developed an AI-powered triaging solution to help improve testing efficiency using cough sounds for COVID-19 patients. C. Operations (including coordination, planning, operational support, and preparing for the delivery of services): The project has brought in a system theory approach towards building and rolling out Ayushman Bharat Digital Mission (ABDM) nationally. The project consults and supports the National Health Authority (NHA) on key activities, including but not limited to, system design and incentive discovery to ensure that a supportive ecosystem is built, aided by uptake of the key products of ABDM across India. The project works on designing the core technology building blocks, incorporating features including integration with the existing Government programmes which will optimize their uptake, work on incentive discovery and stakeholder engagement along with policy research and communication to increase the uptake.

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GEOGRAPHIES