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Conference heralds new era in healthcare through AI and IoT innovations

HT Bureau

GUWAHATI, July 6: The deputy commissioner's office in Udalguri recently hosted a pivotal conference that could significantly transform healthcare in the district through the adoption of cutting-edge AI and IoT technologies.

The conference, attended by officials and experts, focused on deploying innovative health solutions to enhance local medical care and create employment opportunities for the youths of Udalguri.

Key participants included the additional deputy commissioner, project director of the District Rural Development Agency (DRDA), joint director of district health services, subdivisional officer, block development officer, district social welfare officer, general manager of the District Industries & Commerce Centre (DI&CC), lead bank manager, district project manager from the Assam State Rural Livelihoods Mission Society (AS-RLMS) and Amtron Team along with AI-IoT partners from Delhi and Kolkata.

Amtron, spearheading the initiative, introduced a suite of AI-IoT devices designed to revolutionise the healthcare delivery system in Udalguri. Many innovations were proposed including the Diagnostic Kiosk device, which is capable of performing comprehensive blood and urine tests, providing immediate and accurate results. It represents a crucial tool for early detection and timely intervention, streamlining the diagnostic process and making routine check-ups more efficient.

There was also the Automated Diabetic Retinopathy Test Device, which utilises advanced imaging to detect early signs of diabetic retinopathy, a diabetes complication that can lead to blindness if untreated. By identifying retinopathy at an early stage, this device allows for prompt medical attention, potentially preventing severe vision loss. Meanwhile, the ECG solution was designed for detailed heart monitoring. This portable device can detect cardiac abnormalities such as arrhythmias, which might not be evident through conventional methods.

These technologies aim to provide



reliable diagnostics and continuous health monitoring locally, bridging the gap in healthcare accessibility for Udalguri's residents, particularly in rural and underserved areas. The implementation of these devices promises to elevate the district's healthcare services to a world-class standard.

The conference emphasised the practical aspects of deploying these innovations and discussed their integration into the existing healthcare infrastructure. Participants focused on how these technologies could be effectively incorporated to ensure they deliver maximum benefit to the community. The dialogue also covered potential challenges and strategies for overcoming them, reflecting a shared commitment to enhancing Udalguri's healthcare.

Beyond the immediate health benefits, the project also promises to generate local employment, providing job opportunities for technicians, operators, and support staff from within the community. This focus on local hiring will contribute to economic growth and skill development in Udalguri, making the project beneficial on multiple fronts.

"The introduction of AI-IoT solutions in Udalguri represents a forward-thinking approach to modernising healthcare. These devices are set to improve diagnostic accuracy, accelerate response times, and enhance patient out-

comes, aligning with global best practices in preventive and proactive healthcare management. By facilitating early detection and continuous monitoring, the technologies promise to improve the overall quality of healthcare, making it more responsive and efficient," said a senior official of the Udalguri district administration.

The enthusiasm and collaborative spirit displayed by the conference participants underscore a collective vision for advancing healthcare in the district. The discussions were marked by a strong sense of optimism and a commitment to leveraging technology to address public health challenges. The presence of diverse stakeholders, from government officials to technical experts, highlighted the broad support for this initiative and the potential for it to bring about substantial improvements in healthcare delivery.

"As citizens of Udalguri, we wholeheartedly welcome this initiative. The proposed AI-IoT devices are not just technological advancements, but represent a comprehensive approach to healthcare that includes continuous support, education, and awareness for patients. The project's emphasis on creating local employment opportunities adds a vital dimension, offering tangible benefits for the community beyond health improvements," the official added.