NITK almuni to help in AI integration in mgmt

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Mangaluru: A graduate from NITK Surathkal's 1981 class has initiated and funded two projects—water management (AquaWISE) and waste management (BioGas Optimisation) at his alma mater.

The initiatives are backed by Padmanand Warrier, an NITK graduate and creator of Warrier HEART. He intends to incorporate AI

BIOGAS & WATER

technology into both ventures to enhance campus sustainability.

Speaking about the projects and their goal, Padmanand said, "In an era of rapid technological advancement, how can we ensure that innovation serves more than just digital transformation and market growth? How can it also serve humanity and our

HI-TECH: Warrier HEART collaborated with Clever Insight, a no-code AI analytics platform, to conduct a workshop titled 'Data Unleashed: AI, ML & Beyond!' at NITK Surathkal recently

planet? Seeking answers to these questions led me to create Warrier HEART at NITK. Rooted in the values of humanity, empathy, and responsible technology, Warrier HEART is a programme that honours the four foundational 'mothers' that sustain us. They are the mother who gives us life, representing parents; the mother who grants us knowledge, in my case, my alma mater NITK, Surathkal; our mother country; and mother Earth, where we share our home."

He further added, "This is my contribution to my alma mater, which is one of the premier educational institutions with talent and a lot of potential. Each project within Warrier HEART is a homage to these mothers, inspiring solutions that honour life, knowledge, community, and the environment. The Warrier name is intentionally included as a tribute to my parents, UK Warrier and Bhagyalakshmi Warrier."

Two projects he is supporting in the first phase are bio-

gas waste management and AquaWISE. The Maire Tecnimont Group's biogas initiative uses existing facilities to convert food waste into environmentally friendly gas. The biogas project was initiated by the 1981 batch of NITK. IoT sensors monitor various parameters, including methane levels, pH values, and temperature. AI/machine learning algorithms utilise these measurements to enhance production and operational efficiency.

The AquaWISE program-

me focuses on water usage optimisation through an AI-enhanced Water Intelligent System Engineering, across NITK's premises.

Flow metres installed in hostels, laboratories, and administrative buildings provide real-time water consumption data. This monitoring system supports efficient water management, minimises waste, and promotes sustainable practices.

Padmanand emphasised that their goal extends beyond advancing AI, ML, and data science at NITK and its vicinity. "Through practical applications within our campus environment, we tackle current issues whilst promoting sustainable growth and ethical innovation practices," he said. Recently, Warrier HEART collaborated with CleverInsight, a no-code AI analytics platform, to conduct a workshop titled 'Data Unleashed: AI, ML & Beyond!'