UPES and Russian Experts unleashes AI and Machine Learning for Bio-Diesel Production

Three UPES researchers, in collaboration with bioenergy experts from Russia, have devised an advanced technique to enhance the biodiesel production process from Jatropha (Ratanjot). With an aim to find holistic solutions to pressing global challenges, the research harnesses the power of Artificial Intelligence (AI) and Machine

Learning (ML) which will reduce labour expenses and enhance the quality of biofuel. Abhirup Khanna from UPES School of Computer Science, Dr. Sapna Jain, and Dr. Bhawna Lamba from UPES School of Advanced Engineering developed a methodology which utilises AI and machine learning algorithms to predict biodiesel properties and improve the yield and quality of biodiesel. UPES and other global institutions, such as Don State Technical University and the Federal Scientific Agroengineering Center VIM in Russia have garnered notable recognition for this groundbreaking interdisciplinary research in sustainable energy solutions.