

Title of the Speech:

Role of Data Science in Resource Management

Objective:

To analysis data efficiently to provide inexpensive way to improve water management strategies and Water Efficiency reports.

Theme/Outline:

Technological advancement are driving exponential growth in data, improving the efficiency of many sectors and disrupting others. Extracting meaningful information quickly from the modern-day deluge of data is now a requirement for being successful. However, generating decision-ready data or predicting future outcomes from environmental or operational data is challenging and requires specialized skills interdisciplinary backgrounds that include data analysis, statistics, data visualization, computer science, and mathematics. Though the applications of big data were confined to information technology before 21st technology, now it is of emerging area in almost all engineering specializations. But for water managers/engineers, big data is showing big promise in many water related applications such as planning optimum water systems, detecting ecosystem changes through big remote sensing and geographical information system, forecasting/predicting/detecting natural and manmade calamities, scheduling irrigations, mitigating environmental pollution, studying climate change impacts etc.

Speaker Details

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