KI-Campus

Programme of our event

Title: Data Literacy for Sustainable Environmental Engineering: Learn Online, Apply Offline

In an increasingly data-driven world, the ability to collect, analyze, and interpret data is crucial—especially in the context of environmental and sustainability challenges. This workshop provides participants with a foundational understanding of artificial intelligence (AI), data literacy, and data mining, with a strong focus on practical application. The workshop provides practical insights into the intersection of AI, sustainability, and circular economy, helping students understand how these technologies can be applied to environmental challenges to support the transition from linear to circular economic models. By leveraging sensor technology to collect real-world data, participants will explore how data-driven insights can support sustainable decision-making. Through a mix of theoretical input, hands-on group work, and collaborative discussions, this workshop bridges the gap between digital learning and real-world application.

AGENDA

Presentation
To set the stage, we begin with an introduction to the workshop's objectives and an opportunity for participants to introduce themselves. We will then explore the fundamentals of AI and data literacy, providing a clear understanding of how data is generated, processed, and utilized. Participants will also gain deeper insights into data mining techniques, learning how to extract meaningful patterns from large datasets.

Independent Work in Small Groups
In the hands-on portion of the workshop, participants will work in small groups to apply their newly acquired knowledge. Using sensor technology, they will collect and analyze data related to environmental and sustainability topics, such as air quality, temperature variations, or energy consumption. This practical approach allows them to experience the full data pipeline—from data collection to interpretation—while exploring real-world applications of data science.

Exchange and Discussion
The workshop will conclude with a structured exchange of findings, where participants will present their insights and reflect on their experiences. We will also engage in a broader discussion on the potential applications of data literacy beyond the workshop setting, exploring how these skills can be leveraged in various fields, from climate research to smart city development.

By the end of this workshop, participants will have not only developed a solid understanding of AI and data literacy but also gained hands-on experience in working with real-world data. They will leave with valuable insights into how data science can drive sustainable solutions and contribute to informed decision-making in their respective fields.

KONTAKT

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