Unitar Online Catalogue

CIFAL Honolulu - Data Lifecycle Course

People

Deadline: 2 Jan 2025

Type:	Course
Location:	Honolulu, Hawaii, United States of America
Date:	6 Jan 2025 to 5 May 2025
Duration:	116 Days
Programme Area:	Decentralize Cooperation Programme
Website:	https://unitar.org/about/offices-training-centres-around-world/cifal-honolulu
Price:	$0.00
Event Focal Point Email:	cifa@unitar.org
Partnership:	CIFAL Honolulu, Chaminade University

BACKGROUND

This course will use case studies presented by Chaminade and external experts to illustrate the application of the data lifecycle to major global challenges, framed around the United Nations Sustainable Development Goals (SDG, e.g., Climate Action, Health Equity, Gender Equity, Justice).

EVENT OBJECTIVES

'-Identify and describe the stages of the data lifecycle. -Connect the stages of data lifecycle to real-world use cases -Conceptualize data science theory and practice as decision science, using the UN SDG to illustrate use cases for data-driven decision support -Analyze decision support use cases as example of data science processes and methods that are stages of the Data Lifecycle -Identify data forms and structures across domains of human knowledge including quantitative and social sciences, and the arts. -Explain opportunities and concerns surrounding the application of AI and ML to decision support -Describe and implement best practices in data visualization and storytelling for diverse audiences

LEARNING OBJECTIVES

'-Identify and describe the stages of the data lifecycle. -Connect the stages of data lifecycle to real-world use cases -Conceptualize data science theory and practice as decision science, using the UN SDG to illustrate use cases for data-driven decision support -Analyze decision support use cases as example of data science processes and methods that are stages of the Data Lifecycle -Identify data forms and structures across domains of human knowledge including quantitative and social sciences, and the arts. -Explain opportunities and concerns surrounding the application of AI and ML to decision support -Describe and implement best practices in data visualization and storytelling for diverse audiences

CONTENT AND STRUCTURE

This course will include lectures, discussions, assignments, and a project that could be used for future classes and investigation

METHODOLOGY

The course will examine a broad range of types, forms and structures of data that humans use to transmit information and that can be analyzed and visualized to gain knowledge. We will address the role of AI and Machine Learning in decision

support. Finally, we will engage with our data scientist identities as storytellers, exploring best practices and case studies in visualization.

TARGETED AUDIENCE

College Students