Understanding Artificial Intelligence

Chapter 1: What is artificial intelligence?

- Video: What is Artificial Intelligence
 - Learning Objective: Define the concept of Artificial Intelligence as an umbrella discipline and differentiate it from related concepts such as Artificial General Intelligence and computer science.
- Video: What can AI do?
 - Learning Objective: Analyze real-world problems to determine whether they can be addressed by AI, considering its capabilities and current limitations.
- Video: Areas and related Disciplines of AI
 - Learning Objective: Identify the main subfields of AI (e.g., Machine Learning, Deep Learning, Robotics) and explain how they relate to adjacent disciplines.

Chapter 2: Tasks AI Can solve

- Video: Algorithms and AI systems demistified
 - Learning Objective: Recognize how algorithms and AI systems function at a conceptual level without technical detail.
- Video: Acquiring data
 - Learning Objective: Identify ways AI systems get data, namely by sensing the environment or collecting datasets
- Video: Learning from data
 - Learning Objective: Distinguish between types of machine learning applicable to different tasks
- Video: Interacting with the environment
 - Learning Objective: Recognize how AI systems interact with the environment using robotics, computer vision, and natural language processing.

Chapter 3: Harnessing AI in organizations

- Video: Establishing an AI culture
 - Learning Objective: Identify the key points, roadmap and challenges to build an AI-driven organization.
- Video: Data Strategy, resources and people
 - Learning Objective: Recognize the importance and identify core elements in data strategy, resources and people to establish an AI culture
- Video: Is your deployed AI system successful?
 - Learning Objective: Identify how to assess the success of an AI solution from a business perspective and identify who is responsible.
- Video: Challenges and success stories
 - Learning Objective: Identify challenges organizations face in adopting AI, and identify best practices in organizations that faced them and successfully became AI-driven.

Chapter 4: The human side of Al

- Video: Democratizing Artificial Intelligence
 - Learning Objective: Recognize the concept of AI democratization in society and why it matters.
- Video: Explainability and interpretability
 - Learning Objective: Identify tools and methods for building transparent AI systems whose decisions are interpretable.
- Video: Social challenges: ethics, fairness and privacy
 - Learning Objective: Recognize bias and data privacy as two challenges to make AI systems that behave fairly in society.
- Video: Biased or unbiased behavior?
 - Learning Objective: Evaluate the potential impact AI will have in our world in the next years, such as in the workforce or economy.