Data Management in AI Projects

Learning Objectives

By the end of this session, learners will be able to:

- **Explain** the role and importance of data management in AI projects, including governance, security, and quality.
- **Identify** and **analyze** key challenges in managing AI data, such as volume, variety, velocity, and versioning.
- **Map** data through its lifecycle from collection to deletion and understand key management strategies at each stage.
- **Compare** different data repositories (Data Warehouse, Data Lake, Data Mesh) and choose the appropriate solution for different AI use cases.
- **Apply** best practices for effective AI data management through hands-on exercises and case study discussions.

Content

Lesson	Est. Delivery Time	Skills
[Setup](#)	2 min	Set up the development environment.
[Introduction + Key Concepts in Data Management](#)	20 min	Core principles and strategies for handling AI data.
[The Data Lifecycle](#)	30 min	Hands-on activity for tracing AI data through its lifecycle.
[Data Repositories: Choosing the Right Solution](#)	30 min	Decision-making exercise on selecting storage solutions.
Total content	~90 min	More interactive and streamlined approach.