Week 3

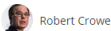Machine Learning Data Lifecycle in Production

Week 3

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Week 3: Data Journey and Data Storage

Robert Crowe

Understand the data journey over a production system's lifecycle and leverage ML metadata and enterprise schemas to address quickly evolving data.

Learning Objectives

- Describe data journey through data lineage and provenance
- Integrate the sequence of pipeline artifacts into metadata storage using ML Metadata library
- Iteratively create enterprise data schema
- Explain how to integrate enterprise data into feature stores, data warehouses and data lakes

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Data Journey and Data Storage

▶ **Video:** Data Journey 6 min   [Resume]

▶ **Video:** Introduction to ML Metadata 8 min

▶ **Video:** ML Metadata in Action 4 min

▢ **Lab:** ML Metadata 50 min

▤ **Practice Quiz:** Data Journey 3 questions

Evolving Data

▶ **Video:** Schema Development 4 min

▶ **Video:** Schema Environments 4 min

▢ **Lab:** Iterative Schema 1h

▤ **Practice Quiz:** Schema Environments 3 questions

Enterprise Data Storage

▶ **Video:** Feature Stores 6 min

▶ **Video:** Data Warehouse 3 min

▶ **Video:** Data Lakes 2 min

▤ **Reading:** Week 3 Optional References 3 min

▤ **Practice Quiz:** Enterprise Data Storage 4 questions

Assignment

▱ **Programming Assignment:** Data Pipeline Components for Production ML 2h Due Jan 3, 1:59 AM CST