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Managing Data for Modern Analytics – Next Generation Architecture, Governance, and Curation Skills

Learn via: **Classroom**

Duration: **3 Days**

Overview

The world of analytics has grown and changed radically in recent years with trends such as data science, big data, and self-service analytics. While analytics has grown and changed data management practices have lagged behind. Data architecture, governance, and curation require different thinking and new techniques to keep pace with rapid changes in how we collect, manage, and use data.

Data architecture must stretch well beyond data warehousing and relational databases to encompass data lakes, analytic sandboxes, big data, NoSQL, cloud hosted data, and more. Conventional data governance practices come from a simpler time when agility, autonomy, and line-of-business self-service were not priorities. Data curation is a critical skill to actively manage the inventory of data and connect self-service data consumers with the data that they need. As the rate of analytics adoption accelerates new data management skills and practices must catch up and keep up with the pace of change.

Prerequisites

There are no prerequisites for this course.

Who Should Attend

- Business and IT leaders struggling with the paradoxes of modern data management
- Analytics and BI designers and developers who are dependent on fresh and relevant data for every analytics use case
- Data management professionals at all levels from architects to engineers
- Data governance professionals – especially data stewards who need to adapt to the changing world of modern data management
- Data architects, analytics architects, and BI architects, and anyone in an architect role that intersects with data

What You Will Learn

- How to shift from traditional BI architecture to a modern analytics ecosystem
- Technologies that support the modern analytic ecosystem: data pipeline management, data cataloging, data preparation, and data analysis
- Organizational implications of the modern analytics ecosystem
- Where governance fits within modern data ecosystems, from point of ingestion to reporting and analysis
- How to supplement governance controls with collaboration, coaching, and crowdsourcing
- How to shift governance culture and practices from enforcement to prevention
- Purpose, practices, and techniques of data curation
- The role of data catalogs for data curation and data cataloging
- How curation, stewardship, and governance work together

Outline

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