



Consulting and Training | Reach New Heights

Course Name

Advanced Data Engineering

Sector Name

Digital Transformation and Innovation

Document Type

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Advanced Data Engineering

Course Introduction

Effective treasury and cash management are essential for ensuring an organization's liquidity, financial stability, and strategic growth.

This course provides participants with practical knowledge and techniques for managing cash flows, optimizing working capital, and developing treasury strategies that support organizational objectives. Participants will gain insights into both operational and strategic aspects of treasury management, including risk mitigation and investment decisions.

Through real-world exercises, case studies, and practical tools, participants will learn to manage cash efficiently, forecast liquidity requirements, and implement best practices in treasury operations. Emphasis is placed on linking treasury decisions to organizational performance and risk management, enhancing financial decision-making and governance.

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Advanced Data Engineering

Target Audience

- ✓ Data Engineers
- ✓ Big Data Engineers
- ✓ Data Architects
- ✓ ETL / ELT Developers

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Learning Objectives

- ✓ Design and implement scalable, high-performance data pipelines.
- ✓ Apply advanced ETL/ELT and data transformation techniques.
- ✓ Optimize data storage and processing in cloud and on-premise environments.
- ✓ Implement data quality, validation, and monitoring frameworks.
- ✓ Integrate structured, semi-structured, and unstructured data for analytics and ML applications.

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Course Outline

✓ DAY 01

Advanced Data Pipeline Architecture

- ✓ Designing scalable and modular data pipelines
- ✓ Batch vs. real-time processing frameworks
- ✓ Data ingestion from diverse sources (APIs, IoT, streaming)
- ✓ ETL/ELT best practices for large datasets
- ✓ Workflow orchestration using Airflow, Prefect, or similar

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Course Outline

✓ Day 02

Cloud-Based Data Engineering

- ✓ Data storage and processing on AWS, Azure, or GCP
- ✓ Cloud-native data pipelines and serverless computing
- ✓ Data lakes, data warehouses, and lakehouse architectures
- ✓ Security, access control, and compliance in cloud data systems
- ✓ Optimizing cloud costs and performance

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Course Outline

✓ Day 03

Big Data Processing and Analytics

- ✓ Apache Spark, Kafka, and distributed processing frameworks
- ✓ Streaming data pipelines and real-time analytics
- ✓ Handling large-scale unstructured and semi-structured data
- ✓ Parallel processing, partitioning, and performance tuning
- ✓ Integrating data for business intelligence and ML workflows

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Course Outline

✓ Day 04

Data Quality, Governance, and Monitoring

- ✓ Data validation, cleansing, and transformation rules
- ✓ Monitoring pipelines and alerting for failures or delays
- ✓ Implementing metadata management and lineage tracking
- ✓ Data versioning and reproducibility for analytics
- ✓ Advanced logging and observability strategies

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Course Outline

✓ Day 05

Advanced Use Cases and Optimization

- ✓ Designing end-to-end solutions for real-world scenarios
- ✓ Performance benchmarking and tuning pipelines
- ✓ Implementing event-driven architectures
- ✓ Orchestrating machine learning data workflows
- ✓ Case studies and hands-on exercises with enterprise datasets

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai
May 2, 2027	May 6, 2027	5 days	4250.00 \$	KSA , Riyadh
Oct. 11, 2027	Oct. 15, 2027	5 days	2150.00 \$	Virtual , Online
Aug. 15, 2027	Aug. 19, 2027	5 days	4250.00 \$	Egypt , Cairo

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