

Building Solutions with Cloudera Data Services

OEM: Cloudera • Duration: 3 Days (24 hrs) • Code: DENG-259

COURSE MODULES & TOPICS

Cloudera Data Flow

- Introduction to data ingestion and streaming capabilities
- Overview of NiFi, Kafka, and stream processing
- Hands-on Session: Creating and managing data flows

Cloudera Data Engineering

- Introduction to Cloudera Data Engineering and Airflow
- Troubleshooting jobs and reviewing use cases
- Hands-on Session: Building Airflow DAGs

Cloudera Data Warehouse

- Understanding Cloudera Data Warehouse for large-scale data analytics
- Introduction to Iceberg
- Hands-on Session: Building a data lakehouse
- Performance optimization and lakehouse maintenance
- Data visualization

Cloudera AI & Machine Learning

- Introduction to Cloudera Machine Learning
- Automating ML workflows and deploying models at scale
- Hands-on Session: Training and deploying a model using Cloudera AI
- MLOps pipeline and model monitoring

Workshop: Stock Market Analysis with Alpha Vantage

- Participants will use Alpha Vantage APIs to fetch and analyze stock market data
- Data Ingestion and Streaming using Cloudera Data Flow and Cloudera Data Engineering
- Global Data Access: Storing and querying stock data with Cloudera Data Warehouse
- Data Visualization: Leveraging Cloudera Data Visualization to create insightful dashboards and reports