

Autonomous Database 23ai for Data Analytics & AI

Foundations & Data Prep

Day 1

Intro to Autonomous Database 23ai

Core AI and analytics capabilities
When to use ADB vs other Oracle services

Provisioning & Setup

Creating and managing your environment
Security and access essentials
Connecting tools and interfaces

Data Loading & Organisation

Loading from files and Object Storage
Profiling and cleaning with Data Studio
Structuring data for analytics

SQL for Analytics

Analytic SQL refresh
Built-in functions for insights

Lab Session

Machine Learning in ADB

Day 2

Oracle Machine Learning Notebooks

Apache Zeppelin notebooks inside ADB
Working with in-database ML algorithms
AutoML and explainability

Feature Engineering & Model Management

Creating and refining features
Practical ML patterns for analytics

Evaluating & Deploying Models

Scoring and predictions
Monitoring model performance
Model storage and lifecycle management
Monitoring Model and Data Drift

Lab Session

AI Integration & Analytics Delivery

Day 3

Vector Search & AI Features

Creating and using vector columns
Similarity search for advanced LLM analytics
How vector search supports LLM and RAG

Connecting to Analytics Tools

Integrating with Oracle Analytics Cloud
External BI platforms and APIs
Embedding insights into dashboards

Governance & Responsible AI

Data access and security
Transparency and bias mitigation
Scaling analytics safely

Future-Proofing with 23ai

Extending use cases
Staying up to date with new features
Preparing for enterprise-scale AI

Lab Session