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Course Name

Milvus Vector AI Database - Administration, Deployment, Performance & Troubleshooting

Sector Name

Information Technology

Document Type

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Milvus Vector AI Database - Administration, Deployment, Performance & Troubleshooting

Course Introduction

This course provides comprehensive theoretical and hands-on training on Milvus Vector Database, covering architecture, deployment, administration, data management, indexing, search, performance optimization, monitoring, backup, troubleshooting, scaling, and production deployment. The course focuses specifically on Milvus as a Vector Database.

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Target Audience

- ✓ Database Administrators
- ✓ Database Engineers
- ✓ System/Cloud Engineers
- ✓ SQL Professionals

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Learning Objectives

- ✓ Explain the architecture, core components, and deployment models of Milvus Vector Database.
- ✓ Install, configure, and deploy Milvus in both Standalone and Distributed environments.
- ✓ Create, manage, and administer databases, collections, schemas, partitions, and vector data.
- ✓ Configure and optimize vector indexing strategies to improve search performance and resource utilization.
- ✓ Perform vector similarity searches, hybrid searches, and metadata filtering using Milvus.
- ✓ Monitor, troubleshoot, and optimize Milvus environments using administrative and monitoring tools.
- ✓ Implement backup, recovery, high availability, and scaling strategies to support production-ready Milvus deployments.

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Course Outline

✓ DAY 1

Module 1 - Introduction to Milvus

- ✓ Module 2 - Milvus Architecture
- ✓ Module 3 - Installation & Deployment

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Course Outline

✓ DAY 2

Module 4 - Database Administration

- ✓ Module 5 - Data Management
- ✓ Module 6 - Indexing

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Course Outline

✓ DAY 3

Module 7 - Search & Query

- ✓ Module 8 - Performance Optimization
- ✓ Module 9 - Monitoring & Administration Tools

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Course Outline

✓ DAY 4

Module 10 - Backup & Recovery

- ✓ Module 11 - High Availability & Scaling
- ✓ Module 12 - Kubernetes Deployment

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Course Outline

✓ DAY 5

Module 13 - Troubleshooting

- ✓ Module 14 - Production Administration
- ✓ Final Practical Lab - End-to-End Milvus DBA Scenario

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 1, 2027	Nov. 5, 2027	5 days	4950.00 \$	Spain , Madrid

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