Introduction to Vector Databases Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The Introduction to Vector Databases training by Multisoft Systems is designed to help learners understand the modern data architecture powering advanced AI applications, including semantic search, large language models, recommendations, vision systems, and intelligent agents. Traditional databases struggle to store and retrieve high-dimensional data such as embeddings generated by AI models.

Module 1: Introduction to High-Dimensional Data

✓ Understanding data dimensions

✓ Importance in AI and machine learning

Module 2: Basics of Vector Databases

✓ What are vector databases?

✓ Key features and benefits

✓ Vector databases vs traditional databases

Module 3: Working with Vector Data

✓ Types of vector data

✓ Basic operations on vectors

✓ Introduction to vector embeddings

Module 4: Indexing and Searching

✓ Simple indexing strategies

✓ Performing basic similarity searches

✓ Use cases for similarity searches

Module 5: Vector Databases and AI

✓ How vector databases support AI?

✓ Simple AI applications using vector databases

✓ Future trends in vector databases

Module 6: Hands-On Exercises

✓ Creating a small vector database

✓ Indexing and searching vector data

✓ Discussing real-world applications