

## **Artificial Intelligence Foundation**

### **Module 0: Course Introduction**

Course Highlights

Course Learning Outcomes

Module Structure

Exam Overview

### **Module 1: AI Definition, Evolution, and Concepts**

Introduction to Artificial Intelligence

Basics of Artificial Intelligence

Fundamentals of Machine Learning

### **Module 2: Fundamentals of Databases**

Basics of Databases

Concepts of Relational Databases

Database Languages

Data Types and Constraints

SQL Commands

SQL Keywords

SQL Operators

SQL Functions and Additional Objects

SQL Joins

### **Module 3: Fundamentals of Statistics**

Basics of Statistics

Fundamentals of Data Visualization

Visual Data Visualization Types

Data Visualization Popular Tools

### **Module 4: Python Programming Fundamentals**

Introduction and Evolution of Python

Python Programming Concepts

Python Object Types



Python Programming Concepts

Python Debugging Concepts

**Module 5: Foundation and Implementation of Data Structures and Algorithms**

Fundamentals of Data Structures

Fundamentals of Algorithms