AI and Machine Learning 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

Multisoft Systems offers a dynamic AI and Machine Learning training program designed to equip participants with the skills necessary to excel in these advanced technological fields. This comprehensive course covers a wide range of topics, including fundamental concepts of artificial intelligence, machine learning algorithms, deep learning, neural networks, and data analytics.

Module 1: Essentials of Generative AI, Prompt Engineering & ChatGPT

- ✓ Introduction to Generative AI Models
- ✓ Explainable AI
- ✓ Prompt Engineering
- ✓ ChatGPT
- ✓ Fine-tuning ChatGPT
- ✓ Ethical Considerations in Generative AI Models & ChatGPT
- ✓ The Future of Generative AI
- ✓ Deploying and Scaling ChatGPT
- ✓ Security and Privacy Considerations
- ✓ Monitoring and Debugging ChatGPT
- ✓ Maintaining ChatGPT

Module 2: Programming Refresher

- ✓ Fundamentals of Programming
- ✓ Introduction to Python Programming
- ✓ Python Data Types and Operators
- ✓ Conditional Statements and Loops in Python
- ✓ Python Functions
- ✓ Object-Oriented Programming Concepts with Python
- ✓ Threading

Module 3: Python for Data Science (IBM)

- ✓ Python Basics
- ✓ Python Data Structures
- ✓ Python Programming Fundamentals
- ✓ Working with Data in Python
- ✓ Working with NumPy Arrays

Module 4: Applied Data Science with Python

- ✓ Introduction to Data Science
- ✓ Essentials of Python Programming
- ✓ NumPy
- ✓ Linear Algebra
- ✓ Statistics Fundamentals
- ✓ Probability Distributions
- ✓ Advanced Statistics
- ✓ Working with Pandas
- ✓ Data Analysis
- ✓ Data Wrangling
- ✓ Data Visualization
- ✓ End-to-End Statistics Application in Python

Module 5: Machine Learning

- ✓ Machine Learning Fundamentals
- ✓ Supervised Learning
- ✓ Regression Models and Applications
- ✓ Classification Models and Applications
- ✓ Unsupervised Learning
- ✓ Ensemble Learning
- ✓ Recommendation Systems

Module 6: Deep Learning with TensorFlow (IBM)

- ✓ Introduction to Artificial Intelligence and Deep Learning
- ✓ Artificial Neural Network
- ✓ Deep Neural Network and Tools
- ✓ Optimization, Tuning, and Interpretability of Deep Neural
- ✓ Networks

- ✓ Convolutional Neural Networks (CNN)
- ✓ Recurrent Neural Networks
- ✓ Autoencoder

Module 7: Deep Learning Specialization

- ✓ Introduction to Deep Learning
- ✓ Artificial Neural Networks
- ✓ Deep Neural Networks
- ✓ TensorFlow
- ✓ Model Optimization and Performance Improvement
- ✓ Convolutional Neural Networks (CNNs)
- ✓ Transfer Learning
- ✓ Object Detection
- ✓ Recurrent Neural Networks (RNNs)
- ✓ Transformer Models for Natural Language Processing (NLP)
- ✓ Getting Started with Autoencoders
- ✓ PyTorch

Module 8: Capstone Project

Module 9: Advanced Deep Learning and Computer Vision

Module 10: Natural Language Processing and Speech Recognition

Module 11: Reinforcement Learning

Module 12: Advanced Generative AI

Tools Covered

- ✓ Matplotlib

- ✓ TesorFlow
- ✓ python
- ✓ Keras
- ✓ OpenCV
- ✓ NLTK
- ✓ Dalle2
- ✓ Gbard
- ✓ ChatGPT
- ✓ OCR
- ✓ NumPy
- ✓ Pytorch

Projects

- ✓ Ecommerce
- ✓ Retail
- ✓ Production
- ✓ Shipping
- ✓ Food Service
- ✓ Entertainment
- ✓ Human Resources
- ✓ BFSI
- ✓ Automobile
- ✓ Healthcare
- ✓ Tourism
- ✓ Real Estate