

ARTIFICIAL INTELLIGENCE (AI) PRINCIPLES AND PRACTICES

“Understand, Apply, and Innovate with Artificial Intelligence to Transform Business and Technology.”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** Face-to-Face & Online Training, In-House Training

Introduction

Artificial Intelligence (AI) is transforming industries by enabling machines to perform tasks that traditionally required human intelligence, such as learning, reasoning, and problem-solving. AI technologies, including machine learning, natural language processing, and computer vision, are being widely applied in healthcare, finance, manufacturing, transportation, and many other sectors.

The Artificial Intelligence Principles and Practices Training course focuses on developing a strong foundation in AI concepts, methodologies, and real-world applications. Participants will learn how to design AI solutions, implement algorithms, and utilize AI tools to solve complex problems, ensuring they can leverage AI for innovation and efficiency in their professional environment.

Objectives

By the end of this course, participants will be able to:

- Understand the core principles, history, and evolution of AI.
- Learn key AI concepts including machine learning, deep learning, NLP, and computer vision.
- Implement basic AI algorithms and models using popular tools and frameworks.
- Analyze and preprocess data for AI applications.
- Apply AI techniques to real-world business and technology problems.
- Evaluate AI models for performance, accuracy, and reliability.
- Understand ethical considerations and best practices in AI implementation.
- Develop innovative AI solutions to enhance decision-making and efficiency.

Why Attend

AI is rapidly becoming a core competency for professionals across industries. This course equips participants with practical knowledge and skills to understand and apply AI technologies, driving innovation, automation, and informed decision-making. Whether you are a beginner or seeking to upgrade your technical expertise, this training ensures participants gain hands-on experience and industry-ready AI proficiency.

Target Audience

This course is suitable for:

- IT and Software Professionals
- Data Scientists and Analysts
- Business Analysts and Decision-Makers
- Engineers and Technology Enthusiasts
- Students and Graduates seeking AI knowledge
- Professionals involved in AI, machine learning, or data-driven projects

Individual Benefits

- Gain foundational and practical knowledge of AI concepts and methodologies.
- Learn to design and implement AI models using real datasets.
- Enhance problem-solving and analytical skills for AI-driven applications.
- Increase professional value and employability in AI and data science domains.
- Build confidence in applying AI to real-world business and technology challenges.
- Develop skills to innovate and drive AI adoption in organizations.

Organizational Benefits

- Integrate AI solutions to improve business processes and decision-making.
- Enhance operational efficiency through automation and predictive analytics.
- Support innovation and digital transformation initiatives.
- Build in-house AI expertise to stay competitive in the market.
- Improve data-driven strategy development and solution deployment.
- Foster a culture of innovation and technology adoption across teams.

Instructional Methodology

The training employs a practical, project-based approach through:

- Interactive lectures on AI principles and methodologies
- Hands-on exercises using AI frameworks and programming tools
- Real-world case studies of AI applications across industries
- Step-by-step tutorials for AI model development and deployment
- Group projects and collaborative problem-solving exercises
- Assignments focused on AI algorithm implementation and evaluation
- Continuous feedback and Q&A sessions for individual improvement

Course Outline

- Module 1: Introduction to Artificial Intelligence – History, Concepts, and Applications
- Module 2: Data Preprocessing and Understanding for AI
- Module 3: Fundamentals of Machine Learning – Supervised and Unsupervised Learning
- Module 4: Deep Learning and Neural Networks
- Module 5: Natural Language Processing (NLP) Techniques and Applications
- Module 6: Computer Vision – Image Processing and Recognition
- Module 7: AI Tools, Frameworks, and Platforms (Python, TensorFlow, etc.)
- Module 8: Model Evaluation, Optimization, and Deployment
- Module 9: Ethical Considerations and Best Practices in AI
- Module 10: Capstone Project – Developing an AI Solution for a Real-World Problem

Certification

Upon successful completion, participants will receive a Certificate in Artificial Intelligence (AI) Principles and Practices, recognizing their proficiency in AI concepts, tools, and applications to drive innovation and efficiency in technology and business domains.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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