

Artificial Intelligence Foundation

Duration: 3 Days

Course Description:

The Artificial Intelligence Foundation course offers a practical introduction to AI. This training offers a comprehensive introduction to AI, its principles, terminology, and real-world applications. Designed for professionals across various sectors, this three-day certification course explores AI's role in innovation, ethics, and human-machine collaboration.

Participants will gain the foundational knowledge needed to implement AI solutions effectively within their organizations.

This globally recognized certification focuses on understanding AI's impact on the Fourth Industrial Revolution and its integration with 'Universal Design' concepts.

Through engaging theoretical discussions and practical applications, participants will delve into AI-driven tools, machine learning, ethical frameworks, and governance strategies. The course equips learners with essential insights into data handling, generative AI, and preparing organizations for future AI advancements.

Target Audience:

This certification is ideal for:

- IT Professionals aiming to implement AI solutions.
- Scientists and Engineers working on AI-driven projects.
- Finance and Education Professionals leveraging AI for enhanced decision-making.
- Knowledge Engineers designing AI systems.
- Leaders and Innovators exploring AI's potential in their organizations.

Whether you're new to AI or looking to deepen your understanding, this course caters to a wide range of professionals.

Course Objectives:

After completing this training, you will:

- Understand AI Fundamentals: Grasp key definitions, types, and historical developments in AI.
- Explore Human-Machine Collaboration: Learn about machine learning processes and their role in collaboration.
- Address Ethical Challenges: Examine AI ethics, including bias, privacy, and regulations, and implement strategies for ethical AI development.
- Master Data Concepts in AI: Understand data quality, big data applications, and visualization techniques.

- Develop AI Implementation Strategies: Create business cases, evaluate project risks, and ensure ongoing governance for AI solutions.
- Plan for the Future of AI: Anticipate trends, explore career opportunities, and assess AI's societal impact.

These objectives ensure participants leave the course ready to navigate the challenges and opportunities AI presents.

Course Outlines:

Introduction to AI and Historical Development

- Key definitions of Artificial Intelligence (AI) terminology
- Key milestones in the development of AI
- Types of AI
- Societal impact of AI
- Sustainability measures to reduce AI's environmental impact

Ethical and legal considerations

- Ethical concerns in AI, including bias and privacy
- Importance of guiding principles for ethical AI development
- Strategies to address ethical challenges in AI projects
- Role of regulations in AI
- Process of risk management in AI

Enablers of AI

- Common examples of AI applications
- Role of robotics in AI systems
- Machine learning
- Common machine learning concepts
- Supervised and unsupervised learning processes

Finding and using data in AI

- Key data terms relevant to AI
- Data quality characteristics and their importance in AI
- Risks associated with data handling and strategies to mitigate them
- Purpose and use of big data
- Data visualization techniques and tools
- Key generative AI terms
- Purpose and application of generative AI, including large language models
- Role of data in training AI within the machine learning process

Using AI in your organisation

- Opportunities for implementing AI in an organization.
- Contents and structure of a business case
- Stakeholders for an AI project
- Project management approaches
- Risks, costs, and benefits associated with a proposed solution
- Ongoing governance activities required when implementing AI

Future planning and impact – Human plus machine

- Roles and career opportunities emerging with AI
- Real-world applications of AI
- AI's impact on society and the future of AI
- Consciousness and its impact on ethical AI

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