



Artificial Intelligence (AI) Workforce Development

5 – 9 September 2027
Cairo (Egypt)



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Introduction:

The rapid advancement of Artificial Intelligence AI is transforming industries globally, creating new opportunities and challenges. As AI technologies evolve, the demand for skilled professionals who can design, implement, and manage AI systems is growing. Artificial Intelligence AI Workforce Development focuses on equipping individuals with the knowledge, skills, and practical experience to thrive in this dynamic field.

This Artificial Intelligence AI Workforce Development course aims to bridge the skills gap by comprehensively understanding AI concepts, tools, and applications. By developing AI literacy, technical capabilities, and leadership skills, participants will be prepared to drive innovation, solve complex problems, and contribute to the future of AI-driven organizations.

Artificial Intelligence AI Workforce Development is essential for preparing organizations to advance technologically. By integrating AI into workforce development, businesses can enhance efficiency and innovation, ensuring their teams are equipped for future challenges. Organizations can forecast talent needs, streamline processes, and optimize workforce management through effective AI workforce planning.

This Artificial Intelligence AI Workforce Development program focuses on AI workforce development and AI for future workforce development to help bridge skill gaps and enable employees to adapt to evolving industry demands. These initiatives, embedded in AI workforce management strategies, pave the way for robust, agile, and future-ready organizations.

Targeted Groups:

- Professionals seeking to transition into AI roles.
- Current employees in tech and IT sectors.
- Managers and leaders overseeing AI-related projects.
- Human Resources teams are looking to integrate AI skills into hiring processes.
- Recent graduates are interested in AI and machine learning careers.
- Entrepreneurs and business owners aiming to leverage AI in operations.
- Educational institutions and training providers are developing AI curricula.
- Government and policymakers involved in AI workforce planning.

Course Objectives:

At the end of this Artificial Intelligence AI Workforce Development course, the participants will:

- Develop a comprehensive understanding of AI technologies and their applications.
- Equip participants with skills in machine learning, data analysis, and AI system development.
- Enhance problem-solving capabilities using AI-driven solutions.
- Foster awareness of ethical and governance issues in AI implementation.
- Provide hands-on experience with AI tools and platforms.
- Prepare participants to lead AI projects and initiatives in organizations.
- Build the ability to integrate AI into existing business processes effectively.
- Promote collaboration and interdisciplinary teamwork in AI-related projects.
- Enable continuous learning and adaptation to evolving AI technologies.
- Strengthen the workforce's readiness for AI-driven industry transformation.

Targeted Competencies:

By the end of this Artificial Intelligence AI Workforce Development training, the participant's competencies will:

- Understanding of AI fundamentals and technologies.
- Proficiency in machine learning algorithms and models.
- Data analysis and data-driven decision-making.
- AI system design and development.
- Problem-solving using AI techniques.
- Ethical considerations and AI governance.
- AI implementation and integration in business processes.
- Leadership and strategic planning for AI initiatives.
- Collaboration across multidisciplinary teams.
- Adaptability to evolving AI tools and trends.

Course Content:

Unit 1: Introduction to Artificial Intelligence and its Impact on Industries:

- Overview of AI and its history.
- Key AI concepts: machine learning, deep learning, neural networks.
- AI applications across various industries: healthcare, finance, manufacturing, and more.
- Understanding AI's role in transforming business processes and operations.
- Identifying the challenges and opportunities of AI adoption.
- The future of AI and its potential to reshape the workforce.
- Ethical considerations and responsible AI use.
- The importance of AI literacy in today's workforce.

Unit 2: Core Technologies of AI: Machine Learning and Data Science

- Introduction to machine learning algorithms and types: supervised, unsupervised, reinforcement learning.
- Understanding data preprocessing, cleaning, and feature engineering.
- Key tools for machine learning: Python, TensorFlow, and sci-kit-learn.
- Basics of neural networks and deep learning models.
- Understanding the importance of big data in AI development.
- Hands-on practice with basic machine learning models.
- Evaluating model performance using metrics like accuracy and precision.
- Building simple predictive models to solve business problems.

Unit 3: AI System Design and Development:

- Principles of AI system architecture and workflow.
- Identifying business needs and aligning them with AI solutions.
- Designing AI models that scale and integrate with business operations.
- Implementing AI algorithms to automate tasks and decision-making.
- Tools and platforms for AI development: Google AI, Azure AI, IBM Watson.
- Data storage and management for AI applications.
- Developing AI prototypes and testing them in real-world scenarios.
- Best practices for AI model deployment and monitoring.

Unit 4: Ethical Considerations and Governance in AI:

- Understanding AI ethics, fairness, and bias in algorithms.
- Impact of AI on privacy, security, and data protection.
- Regulatory frameworks and policies surrounding AI implementation.
- Ensuring transparency and accountability in AI decision-making.
- The role of AI governance in maintaining organizational responsibility.
- Managing the social and economic implications of AI on the workforce.
- Addressing the digital divide and promoting inclusive AI development.
- Case studies on ethical challenges and their solutions in AI projects.

Unit 5: Leading AI Projects and Preparing for the Future Workforce:

- Building AI-driven teams and fostering a culture of innovation.
- Leadership skills for managing AI projects and stakeholders.
- Strategic planning for AI integration across departments.
- Continuous learning and staying updated with AI trends and advancements.
- Key challenges in managing AI talent and resources.
- Cross-functional collaboration and communication in AI projects.
- Preparing the workforce for AI-driven changes: upskilling and reskilling.
- Developing long-term strategies for AI workforce sustainability.