GTC Transforming Emerging Economies
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Artificial Intelligence & Machine Learning

COURSE OVERVIEW

This course provides engineering professionals with fundamental AI principles and practical implementation skills, covering machine learning algorithms, neural networks, and AI system design for solving complex engineering problems. Through practical exercises and various case studies, participants will be able to design, implement, and evaluate AI solutions for real-world engineering applications, bridging the gap between theoretical AI concepts and practical engineering implementation.

WHO SHOULD ATTEND?

This course is ideal for engineers, software developers, and data scientists seeking to apply AI in engineering contexts. It also suits system architects, automation specialists, and technical professionals working on AI-powered products, smart devices, or industrial automation. Professionals aiming to develop practical skills in machine learning, deep learning, and AI integration for real-world engineering problems will benefit most.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Implement machine learning algorithms for engineering applications.
- Design and train neural networks for pattern recognition and prediction.
- Preprocess and analyze engineering data for AI solutions.
- Deploy AI models in production environments.
- Evaluate AI system performance and limitations.
- Integrate AI components into larger engineering systems.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Machine learning fundamentals and algorithm selection.
- Neural network architectures and training methodologies.
- Data preprocessing and feature engineering techniques.
- Model evaluation and performance metrics.
- AI system deployment and integration strategies.
- Ethical considerations in AI engineering.
- Industry applications and case studies.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded