GTC Transforming Emerging Economies

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Machine Learning

COURSE OVERVIEW

This foundational course on Machine Learning introduces participants to the core concepts, techniques, and applications of machine learning. It covers model training and evaluation, data preparation, and algorithm selection. Participants will explore practical cases, understand the basics of data science workflows, and gain hands-on experience using common ML tools and frameworks. The course is designed to equip learners with the knowledge needed to start building and deploying basic machine learning models in real-world scenarios.

WHO SHOULD ATTEND?

This course is ideal for beginners and professionals from non-technical backgrounds who are interested in understanding the basics of machine learning. It is well-suited for data enthusiasts, IT personnel, business analysts, project managers, educators, and anyone looking to transition into data science or artificial intelligence roles. No prior programming or data science experience is required.

COURSE OUTCOMES

Delegates will gain the knowledge and skills to:

- Understand the core concepts and types of machine learning (supervised, unsupervised, and reinforcement learning).
- Identify real-world problems that can be solved using machine learning techniques.
- Interpret basic machine learning models and evaluate their performance.
- Gain familiarity with essential tools and platforms used in machine learning.
- Apply simple algorithms to datasets using user-friendly interfaces or guided scripts.
- Build a foundation for more advanced learning in data science, AI, and predictive analytics.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- An introduction to machine learning concepts and terminology.
- Overview of supervised and unsupervised learning methods.
- Data preprocessing and feature selection.
- An introduction to popular algorithms (e.g., linear regression, decision trees, clustering).
- Model training, testing, and performance evaluation.
- Hands-on practice with beginner-friendly ML tools and platforms.
- How to use cases and applications of machine learning across industries.
- Basics of ethical considerations in AI and ML.
- Interpreting model results and making data-driven decisions.
- Pathways to further learning in advanced AI and data science.

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