CET-AIF: AI Fundamentals Certificate

Course Code: CET-AIF
Duration: 3 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This *AI Fundamentals Certificate* course introduces you to Artificial Intelligence (AI), a growing and rapidly changing field that is becoming increasingly vital to business survival, job stability, and national security

SKILLS COVERED

- Explain the basics of AI
- Describe properties of AI
- Identify resource requirements for adopting AI
- Articulate expert systems (e.g., temporal reasoning, logic and inference)
- Distinguish machine learning models (e.g., decision trees, regression models, Bayesian)
- Describe machine learning algorithms (e.g., supervised learning, unsupervised learning, deep learning)
- Describe enterprise usage of artificial intelligence (e.g., RPA, log analysis, image processing, NLP, fraud detection, cybersecurity, healthcare)
- Identify consumer usage of artificial intelligence (e.g., autonomous vehicles, digital assistants, freelance mobile marketplace)
- Identify risks associated with artificial intelligence (e.g., cybersecurity, privacy, data loss)
- Articulate ethical dilemmas in artificial intelligence (e.g., privacy, bias, nefarious usage)

WHO SHOULD ATTEND?

The Artificial Intelligence Fundamentals Certificate is intended for:

A wide-range of individuals, including:

- Current IT Professionals looking to upskill to broaden their IT knowledge and skills or keep up-to-date with emerging technologies.
- IT Audit, risk, security and governance professionals looking to gain a fundamental understanding of emerging technology knowledge and skills.
- Those new to IT, students, recent graduates and career changers looking to differentiate themselves from other job candidates.

PREREQUISITES

There are no prerequisites required to attend this course.

MODULES

Module 1

Learning Objectives

- Explain the basics of AI
- Describe properties of AI
- Identify resource requirements for adopting AI
- Articulate expert systems (e.g., temporal reasoning, logic and inference)
- Distinguish machine learning models (e.g., decision trees, regression models, Bayesian)

Topics

- Properties of Artificial Intelligence
- Resource Requirements for Adopting AI
- Expert Systems
- Machine Learning Models

Module 2
Learning Objectives

- Describe machine learning algorithms (e.g., supervised learning, unsupervised learning, deep learning)
- Describe enterprise usage of artificial intelligence (e.g., RPA, log analysis, image processing, NLP, fraud detection, cybersecurity, healthcare)
- Identify consumer usage of artificial intelligence (e.g., autonomous vehicles, digital assistants, freelance mobile marketplace)
- Identify risks associated with artificial intelligence (e.g., cybersecurity, privacy, data loss)
- Articulate ethical dilemmas in artificial intelligence (e.g., privacy, bias, nefarious usage)

Topics

- Statistical Modeling
- Machine Learning Algorithms
- Enterprise Usage of Artificial Intelligence
- Consumer Usage of Artificial Intelligence
- Risks Associated with Artificial Intelligence
- Ethics in Artificial Intelligence

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