

# MCNS Training Program

AI for Technical Leaders

# AI for Technical Leaders

AI for Technical Leaders will offer delegates the necessary knowledge to develop, deploy and strategize about artificial intelligence within their organization

## COURSE REVIEW

**This AI training course** allows participants to:

- Develop a general understanding about AI principles, technology, and capability
- Reason about AI business opportunities, applications, and use-cases
- Understand how to develop AI solutions / products, along with required data storage, computational, and software infrastructure
- Understand how to lead an organization's AI transformation journey

## AIMED AT

**AI for Technical Leaders** is a one-day course, designed for anyone within an organization that needs to appreciate the **principles** underlying **artificial intelligence technology**; understand how to **develop artificial intelligence** solutions & products; and understand how to **deploy artificial intelligence** within an organization.

This course is in general also suitable for anyone that desires to understand, deploy, and strategize about artificial intelligence, including members of governmental organizations, non-government organizations (NGOs), regulators, tech consultants, or tech investors, engaging with artificial intelligence technology.

Prerequisites: This course is therefore suited for business, operations, and technical team leads and members, responsible for **implementing an organization's AI transformation**. No prerequisites are required.



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## Course Benefits for individuals (Professionals)

- Familiarization with the general principles of AI technology
- Familiarization with ethical, responsible, and trustworthy AI technology
- Ability to scope AI business opportunities for their organization
- Understand how to develop / deploy artificial intelligence solutions within their organization
- Understand how to strategise about artificial intelligence within their organization

## Course Benefits for your Organization

- Preparing for the future by appreciating in-depth the principles, potential, and opportunities of AI technology
- Equipping your team with the necessary knowledge required to understand, develop and deploy artificial intelligence within your organization
- Keeping ahead by understanding how to strategize about artificial intelligence in order to maintain an organization competitive edge

## Training Format

### Instructor-Led Training

On-Site Classroom: 1 day

Web delivered (Virtual): 1day

This course will involve a series of lectures, case-studies, tutor-led discussion, scenario-based discussions, demonstrations and Q&A.

## Customer Tailored!

We can tailor the included topics, tech level, and duration of this course right to your team's technical requirements and needs



Section 1: AI Technology and Challenges

## Course Program Outline

### *Module 1: AI Technology Overview, Capability and Challenges*

- Artificial intelligence overview
- Artificial intelligence enablers
- Machine learning based approaches to artificial intelligence
- Deep learning and other state-of-the-art approaches to artificial intelligence
- Artificial intelligence capability

### *Module 2: AI Technology Challenges*

- AI data and computational needs
- AI robustness, fairness, and privacy
- AI transparency, explainability, and interpretability
- AI accountability, trustworthiness, and ethics/law



Section 2: AI Impact, Applications and Case Studies

## Course Program Outline

### *Module 3: AI Impact on Economy, Society, Policy, and Regulation*

- Artificial intelligence impact
- Artificial intelligence policy, regulation and legislation

### *Module 4: AI Use-Cases*

- AI use-cases crossing domains such as accountancy, finance, insurance, law, healthcare, government, and many more
- Scenario-based discussion involving discovery of the potential application of AI technology in various sectors
- Business feasibility, technical feasibility, and wider 'ethical' implications



Section 3: AI Zero to One

## Course Program Outline

### *Module 5: AI Operations*

- Data acquisition, processing and preparation
- ML / AI model selection
- ML / AI model optimization
- ML / AI model validation / testing
- ML / AI model deployment
- ML / AI model monitoring
- ML Ops architectures, processes and infrastructure

### *Module 6: AI Solutions Development Options*

- AI solutions development options
- AI solution outsourced development: pros / cons
- AI solution in-house development: pros / cons

### *Module 7: AI Transformation*

- The AI transformation journey
- AI team development / training
- AI/Data strategy development

