ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR EVERYONE

Turn challenges into opportunities with AI and Machine Learning

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With modules from MIT xPRO

Overview

Whether you drive the strategic vision of your organization, manage a business unit, or collaborate with technical teams to develop new products, one thing is clear: artificial intelligence (AI) is everywhere.

While the IT Industry has led the charge on AI products and applications, every sector, including finance, healthcare, manufacturing, and retail are experiencing AI innovation.

AI is one of the biggest catalysts for digital transformation and the experts at MIT want to expand your understanding of AI and its foundational topics. In this two-week course from Emeritus, you can develop your fluency in AI, learn a process for designing AI-centric products, and navigate machine learning methods that can help solve your business challenges.

Upon successful completion of this course, you'll receive a certificate from Emeritus.

Advance your fluency in AI and machine learning by:

- Engaging in peer-to-peer discussions on hot topics
- Completing optional applied exercises
- Applying your knowledge to a final, graded capstone project

What you'll learn

AI-centered products and initiatives achieve success by using algorithms to help them reach a desired behavior. Gain exposure to a range of methods that will help you choose the right technique to solve the challenge at hand.

Week 1:

Introduction to the Artificial Intelligence Design Process

Examine the four stages of AI-based product design, focusing on cost metrics and the technical requirements of an AI product development plan.

Learning outcomes:

1. Explain how to manage data when creating an AI product.
2. Select the right AI technology to improve a business process.
3. Appraise the business and technical requirements for a desired AI behavior.
4. Identify which characteristics give an AI product or process a natural long-term sustainable advantage. Select the right data strategy to yield value and sustainable advantage for an AI product or process.
5. Evaluate cost metrics and contingency planning for an AI product development plan.
6. Describe how the three AI cancers can affect an AI process or product.

Week 2:

Machine Learning Methods for AI Products

Learning outcomes:

1. Select the right machine learning algorithm for a given business scenario.
2. Calculate whether the point is negative or positive, given a linear classifier and a set of points.
3. Explain the importance of having training, validation, and testing sets.
4. Create a tree-like diagram from a simple dataset.
5. Select an appropriate data model for a given dataset.
4. Explain the difference between classification and regression algorithms.

UPSKILL in 2 weeks