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Course Name

AI Strategies and Roadmap: Systems Engineering Approach to AI Development and Deployment - MIT

Sector Name

Information Technology

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Course Introduction

Artificial Intelligence (AI) is a powerful tool—but without a comprehensive and integrated framework supporting your initiatives, your organization may miss out on significant value.

AI continues to revolutionize industries such as energy, consumer products and services, automotive, financial services, national security, healthcare, and advertising. Yet business and IT leaders often have a limited view, focusing only on machine learning. In reality, AI technologies are fundamental components of complex systems that require reliable data, proper processing, responsible governance frameworks, and a balanced interaction between humans and machines.

This program equips professionals to lead, develop, and deploy responsible AI systems that augment human capabilities, using a holistic perspective focused on systems engineering. Participants gain practical tools to transition AI initiatives from development to production.



This five-day intensive program provides the skills and strategies needed to adopt a systems engineering approach to AI that maximizes the value of your digital products and services. Through interactive exercises, industry speakers, and a practical team project, participants will:

- ✓ Understand the appropriate roles for humans versus machines.
- ✓ Develop skills to lead and manage advanced technical teams.
- ✓ Gain hands-on experience building machine learning models using Jupyter Notebook.
- ✓ Master the ten key principles for integrating people, processes, and technology for successful AI deployment.
- ✓ Learn the role of GPUs and TPUs in efficiently running machine learning algorithms.
- ✓ Engage with AI practitioners sharing real-world experiences, emphasizing a holistic approach from architecture to deployment.
- ✓ Receive a brief introduction to Generative AI, with a focus on Large Language Models (LLMs).

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Target Audience

- ✓ AI and Data Science Leaders
- ✓ Systems Engineers & AI Infrastructure Teams
- ✓ Business and AI Strategy Consultants

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Learning Objectives

- ✓ Understand the end-to-end AI architecture from a systems engineering perspective.
- ✓ Master the components of the AI pipeline.
- ✓ Engage in hands-on exercises and review key research papers in the field.
- ✓ Formulate and communicate the business value of AI to stakeholders.
- ✓ Integrate the concept of Responsible AI (RAI) from the early stages of development.
- ✓ Acquire practical guidance for deploying AI capabilities, emphasizing DevOps, MLOps, and DevSecOps.
- ✓ Learn from AI practitioners across multiple industries.
- ✓ Develop a strategic vision and roadmap for AI products and services, including Generative AI.

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Course Outline

✓ DAY 01

Introduction and AI background: functional building blocks

- ✓ Strategic vision and project roadmapping
- ✓ Brief introduction to Generative AI and LLMs
- ✓ Data processing and database types
- ✓ AI project proposals

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Course Outline

✓ Day 02

Fundamentals of machine learning model design

- ✓ Performance metrics and evaluation methods
- ✓ Hands-on exercise: building an MLP model
- ✓ Modern computing as an enabling technology
- ✓ Team project: first draft of the strategic roadmap

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Course Outline

✓ Day 03

Human-machine collaboration

- ✓ Responsible AI (RAI)
- ✓ Practitioner session: opportunities and challenges in Generative AI (e.g., GPT-4, LLaMA, DALL·E 2)
- ✓ Guidelines for AI capability deployment
- ✓ Team project: second draft of the strategic roadmap

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Course Outline

✓ Day 04

MLOps: moving from development to production

- ✓ Fostering a culture of innovation within teams
- ✓ Leadership and resilience in AI
- ✓ Effective communication
- ✓ Team project: final strategic roadmap presentation

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Course Outline

✓ Day 05

Integration of all program themes

- ✓ Final team project presentations
- ✓ Program conclusion and takeaways

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 23, 2026	Nov. 27, 2026	5 days	2150.00 \$	Virtual , Online
Aug. 1, 2027	Aug. 5, 2027	5 days	4250.00 \$	KSA , Riyadh
May 10, 2027	May 14, 2027	5 days	5950.00 \$	USA , California

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