

# Technical AI Governance Essentials – Optimization

## Key information

Course code	Technical AI Governance Essentials – Optimization
Course version	1.0
Course title	Technical AI Governance Essentials – Optimization
Description	<p>The 'Technical AI Governance Essentials – Optimization' course provides a comprehensive roadmap for organizations to mature their AI governance capabilities from a hands-on, technical perspective.</p> <p>The course's primary goal is to guide students in establishing, integrating, and orchestrating AI governance platforms, ultimately positioning technical governance as an enabler of speed and innovation. The emphasis is on understanding the holistic technical approach, architecture, and implementation of AI governance in a real-world context.</p>
What you'll learn	<ul style="list-style-type: none"><li>Explain the holistic approach, principles, and key considerations of AI governance.</li><li>Design architecture patterns for governance-by-design.</li><li>Implement strategies for AI governance across different organizational scales.</li><li>Integrate governance techniques within diverse technical environments.</li><li>Apply advanced optimization and automation approaches to AI governance.</li><li>Develop platform designs for governance-as-a-service.</li></ul>
Duration	3 hours
Level	Introductory
Format	Instructor-led

## Content overview

Who this course is for	This course is aimed at technical practitioners and technical-adjacent roles, such as data scientists, MLOps engineers, data engineers, cloud security architects, and technical leads responsible for designing, building, and maintaining AI systems. The ideal attendee has significant experience in a technical role and is involved in building AI applications or infrastructure.
Total modules	5
Total classroom activities	14
Prerequisites	Any technical background—experience implementing production systems, software engineers, solution architects, and security professionals.
Products	None

## Content breakdown

Module 00 title	The AI governance imperative: What, how, and why now?
Module 00 objectives	<ul style="list-style-type: none"><li>Explain the holistic approach, principles, and key considerations of AI governance.</li></ul>
Module 00 activities	N/A
Module 01 title	Orchestrate: Scale governance globally
Module 01 objectives	<ul style="list-style-type: none"><li>Integrate governance techniques within diverse technical environments.</li></ul>
Module 01 activities	<ul style="list-style-type: none"><li>Discussion: Always-on governance</li><li>Quiz questions</li><li>Discussion: The legacy integration challenge</li></ul>
Module 02 title	Optimize: Implement AI-powered governance innovation

<b>Module 02 objectives</b>	<ul style="list-style-type: none"><li>• Apply advanced optimization and automation approaches to AI governance.</li><li>• Develop platform designs for governance-as-a-service.</li></ul>
<b>Module 02 activities</b>	<ul style="list-style-type: none"><li>• Discussion: The self-tuning governance platform</li><li>• Quiz questions</li><li>• Discussion: The future-proof governance architecture</li><li>• Tabletop exercise: Uncoordinated optimization incident</li></ul>