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Global Learning for Operational Leaders



DIGITAL INNOVATION AND TRANSFORMATION | DIT-058

MLOps and AI Model Lifecycle Management for Managers

Contact

+31 85 7444446

info@aractech.com

https://aractech.com

Address

Waarderweg 50, 2031 BP Haarlem - Netherlands.



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Course content

Why Attend

Many organisations can build promising machine learning models, but far fewer can run them reliably in production. Studies consistently show that most AI pilots never reach full deployment or lose value soon after launch.

MLOps brings engineering discipline to machine learning. It combines practices from DevOps, data engineering and model governance to automate deployment, monitor performance, manage versions and retrain models safely.

Course Methodology

• This training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes an interactive mixture of lecture-led learning, case studies, practical exercises and group discussions.

Course Objectives

• Understand core principles and best practices covered in MLOps and AI Model Lifecycle Management for Managers.

• Apply practical techniques to day-to-day operational challenges.

• Build an implementation action plan suitable for your organization.

Target Audience

• Heads of data, analytics and AI

• IT operations and platform managers

• Data science and machine learning team leads

• Enterprise and solution architects



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Course outline

Detailed course outline

Day-by-day outline for MLOps and AI Model Lifecycle Management for Managers.

Day 1 - From Experiments to Production

- 09:00-09:39 | The Production Gap: Why most machine learning models never deliver lasting value
- 09:39-10:18 | What MLOps Is: Principles, goals and how it differs from DevOps
- 10:18-10:57 | The Machine Learning Lifecycle: Data, training, validation, deployment, monitoring and retraining
- 10:57-11:00 | Hidden Technical Debt: Data dependencies, pipeline complexity and configuration risk
- 11:00-11:30 | Coffee break
- 11:30-12:06 | Hidden Technical Debt: Data dependencies, pipeline complexity and configuration risk (continued)
- 12:06-12:44 | Roles and Responsibilities: Data scientists, ML engineers, data engineers and operations
- 12:44-13:22 | MLOps Maturity Levels: From manual processes to fully automated pipelines
- 13:22-14:00 | Assessment: Participants evaluate their organisation's current MLOps maturity

Day 2 - Data and Model Pipelines

- 09:00-09:34 | Data Pipelines for Machine Learning: Ingestion, validation and transformation
- 09:34-10:08 | Feature Stores: Sharing and reusing features consistently across models
- 10:08-10:42 | Experiment Tracking: Recording parameters, metrics and results
- 10:42-11:00 | Versioning: Managing versions of data, code and models together
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Versioning: Managing versions of data, code and models together (continued)
- 11:46-12:20 | Reproducibility: Ensuring any model can be rebuilt and audited
- 12:20-12:53 | Automated Training Pipelines: Orchestration tools and workflows
- 12:53-14:00 | Demonstration: Walking through an automated training pipeline



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Day 3 - Deployment and Serving

- 09:00-09:34 | Deployment Patterns: Batch, real-time, streaming and edge inference
- 09:34-10:08 | CI/CD for Machine Learning: Automated testing and release of models
- 10:08-10:42 | Testing Models Before Release: Unit, integration, performance and fairness tests
- 10:42-11:00 | Release Strategies: Shadow deployment, canary releases and A/B tests
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Release Strategies: Shadow deployment, canary releases and A/B tests (continued)
- 11:46-12:20 | Containers and Infrastructure: Docker, Kubernetes and serverless options
- 12:20-12:53 | Scalability and Cost: Right-sizing infrastructure and controlling inference cost
- 12:53-14:00 | Case Study: Deploying a credit risk model with staged rollout

Day 4 - Monitoring and Continuous Improvement

- 09:00-09:34 | What to Monitor: Data quality, data drift, concept drift, predictions and business outcomes
- 09:34-10:08 | Alerting and Thresholds: Detecting problems before they affect customers
- 10:08-10:42 | Retraining Strategies: Scheduled, triggered and continuous retraining
- 10:42-11:00 | Feedback Loops: Capturing ground truth and user feedback
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Feedback Loops: Capturing ground truth and user feedback (continued)
- 11:46-12:20 | Incident Management: Responding to model failures and rolling back safely
- 12:20-12:53 | LLMOps: Operating generative AI applications, prompts and evaluations
- 12:53-14:00 | Exercise: Design a monitoring dashboard for a production model



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Day 5 - Governance, Platforms and Operating Model

- 09:00-09:30 | Model Governance: Model inventory, documentation, approvals and audit trails
- 09:30-10:00 | Regulatory Alignment: Meeting expectations from regulators and AI legislation
- 10:00-10:30 | Platform Options: Cloud ML platforms, open-source stacks and commercial MLOps tools
- 10:30-11:00 | Selecting a Platform: Evaluation criteria, total cost and lock-in risk
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Operating Models: Centralised, federated and hub-and-spoke MLOps teams
- 12:00-13:00 | Skills and Culture: Building collaboration between data science and operations
- 13:00-14:00 | Capstone: Participants build an MLOps roadmap for their organisation



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Seminar dates

Available seminar dates

Live dates and pricing for MLOps and AI Model Lifecycle Management for Managers generated from the course details page.

Date	Location	Format	Fee
4 - 8 January 2027	Cape Town	Classroom	**€1,895**
11 - 15 January 2027	Paris	Classroom	**€2,210**
18 - 22 January 2027	Dubai	Classroom	**€2,745**
25 - 29 January 2027	Amsterdam	Classroom	**€2,415**
1 - 5 February 2027	Dubai	Classroom	**€2,745**
8 - 12 February 2027	Oslo	Classroom	**€4,200**
15 - 19 February 2027	Cape Town	Classroom	**€1,895**
22 - 26 February 2027	Istanbul	Classroom	**€2,250**
1 - 5 March 2027	Dublin	Classroom	**€3,360**
8 - 12 March 2027	Barcelona	Classroom	**€2,175**



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15 - 19 March 2027	Cape Town	Classroom	**€1,895**
22 - 26 March 2027	Frankfurt	Classroom	**€2,215**
5 - 9 April 2027	Dubai	Classroom	**€2,745**
12 - 16 April 2027	Kuala lumpur	Classroom	**€2,425**
19 - 23 April 2027	Liverpool	Classroom	**€3,360**
26 - 30 April 2027	Manchester	Classroom	**€3,360**
3 - 7 May 2027	Dubai	Classroom	**€2,745**
10 - 14 May 2027	Cape Town	Classroom	**€1,895**
17 - 21 May 2027	Paris	Classroom	**€2,210**
24 - 28 May 2027	Dubai	Classroom	**€2,745**



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7 - 11 June 2027	Amsterdam	Classroom	**€2,415**
14 - 18 June 2027	Dubai	Classroom	**€2,745**
21 - 25 June 2027	London	Classroom	**€2,815**
5 - 9 July 2027	Cape Town	Classroom	**€1,895**
12 - 16 July 2027	Brussels	Classroom	**€3,400**
19 - 23 July 2027	Dubai	Classroom	**€2,745**
26 - 30 July 2027	Barcelona	Classroom	**€2,175**
2 - 6 August 2027	Cape Town	Classroom	**€1,895**
9 - 13 August 2027	Frankfurt	Classroom	**€2,215**
16 - 20 August 2027	Dubai	Classroom	**€2,745**



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23 - 27 August 2027	Kuala lumpur	Classroom	**€2,425**
6 - 10 September 2027	Eindhoven	Classroom	**€3,400**
13 - 17 September 2027	Istanbul	Classroom	**€2,250**
20 - 24 September 2027	Dubai	Classroom	**€2,745**
4 - 8 October 2027	Cape Town	Classroom	**€1,895**
11 - 15 October 2027	Paris	Classroom	**€2,210**
18 - 22 October 2027	Dubai	Classroom	**€2,745**
25 - 29 October 2027	Rotterdam	Classroom	**€3,400**
1 - 5 November 2027	Dubai	Classroom	**€2,745**
8 - 12 November 2027	London	Classroom	**€2,815**



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22 - 26 November 2027	Istanbul	Classroom	**€2,250**
6 - 10 December 2027	Dubai	Classroom	**€2,745**
13 - 17 December 2027	Dusseldorf	Classroom	**€3,400**
20 - 24 December 2027	Cape Town	Classroom	**€1,895**
27 - 31 December 2027	Frankfurt	Classroom	**€2,215**
4 - 8 January 2027	Online / Live	Online / Live	**€1,515**
11 - 15 January 2027	Online / Live	Online / Live	**€1,515**
18 - 22 January 2027	Online / Live	Online / Live	**€1,515**
25 - 29 January 2027	Online / Live	Online / Live	**€1,515**



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1 - 5 February 2027	Online / Live	Online / Live	**€1,515**
8 - 12 February 2027	Online / Live	Online / Live	**€1,515**
15 - 19 February 2027	Online / Live	Online / Live	**€1,515**
22 - 26 February 2027	Online / Live	Online / Live	**€1,515**
1 - 5 March 2027	Online / Live	Online / Live	**€1,515**
8 - 12 March 2027	Online / Live	Online / Live	**€1,515**
15 - 19 March 2027	Online / Live	Online / Live	**€1,515**
22 - 26 March 2027	Online / Live	Online / Live	**€1,515**
5 - 9 April 2027	Online / Live	Online / Live	**€1,515**
12 - 16 April 2027	Online / Live	Online / Live	**€1,515**



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19 - 23 April 2027	Online / Live	Online / Live	**€1,515**
26 - 30 April 2027	Online / Live	Online / Live	**€1,515**
3 - 7 May 2027	Online / Live	Online / Live	**€1,515**
10 - 14 May 2027	Online / Live	Online / Live	**€1,515**
17 - 21 May 2027	Online / Live	Online / Live	**€1,515**
24 - 28 May 2027	Online / Live	Online / Live	**€1,515**
7 - 11 June 2027	Online / Live	Online / Live	**€1,515**
14 - 18 June 2027	Online / Live	Online / Live	**€1,515**
21 - 25 June 2027	Online / Live	Online / Live	**€1,515**
5 - 9 July 2027	Online / Live	Online / Live	**€1,515**



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19 - 23 July 2027	Online / Live	Online / Live	**€1,515**
26 - 30 July 2027	Online / Live	Online / Live	**€1,515**
2 - 6 August 2027	Online / Live	Online / Live	**€1,515**
9 - 13 August 2027	Online / Live	Online / Live	**€1,515**
16 - 20 August 2027	Online / Live	Online / Live	**€1,515**
23 - 27 August 2027	Online / Live	Online / Live	**€1,515**
6 - 10 September 2027	Online / Live	Online / Live	**€1,515**
13 - 17 September 2027	Online / Live	Online / Live	**€1,515**
20 - 24 September 2027	Online / Live	Online / Live	**€1,515**



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18 - 22 October 2027	Online / Live	Online / Live	**€1,515**
25 - 29 October 2027	Online / Live	Online / Live	**€1,515**
1 - 5 November 2027	Online / Live	Online / Live	**€1,515**
8 - 12 November 2027	Online / Live	Online / Live	**€1,515**
15 - 19 November 2027	Online / Live	Online / Live	**€1,515**
22 - 26 November 2027	Online / Live	Online / Live	**€1,515**
6 - 10 December 2027	Online / Live	Online / Live	**€1,515**
13 - 17 December 2027	Online / Live	Online / Live	**€1,515**



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27 - 31 December 2027	Online / Live	Online / Live	**€1,515**