



Healthcare AI Model Selection and Validation Training Course

1 – 5 February 2027
Kuala Lumpur

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Ref: 202_118097 **Date:** 1 – 5 February 2027 **Location:** Kuala Lumpur **Fees:** 5200 Euro

Overview

Healthcare AI Model Selection and Validation Training Course is a five-day intermediate course for healthcare data scientists, clinical analytics teams, digital health product managers, health informatics specialists, AI engineers, and clinical governance leads, who leave with a Healthcare AI Model Evaluation Pack. Participants compare algorithm families, assess data quality and bias, validate and calibrate models, interpret outputs, plan workflow integration, and define safety and monitoring controls. Agile Leaders Training Center delivers training in healthcare AI model evaluation.

Who Should Attend

- Healthcare analytics personnel responsible for clinical problem framing, data preparation, and model evaluation
- Digital health product personnel responsible for intended use, workflow fit, and deployment decisions
- Health informatics personnel responsible for data definitions, interoperability, and clinical context
- AI engineering personnel responsible for algorithm selection, validation, and monitoring
- Clinical governance personnel responsible for patient safety, oversight, and assurance evidence

The course assumes participants can interpret basic analytical results and healthcare workflows, and it leaves out introductory coding, clinical diagnosis, and vendor-platform administration.

Departments and Industries

The course supports model evaluation across hospitals, digital health services, insurers, public health organizations, medical technology, and research operations.

- Clinical analytics and decision support
- Digital health product and innovation teams
- Health information management and data governance
- Patient safety and clinical governance
- Healthcare technology and research organizations

Learning Objectives

By the end of this course, participants will be able to:



- Analyze healthcare problems and define suitable model objectives
- Compare supervised and unsupervised algorithm choices
- Evaluate healthcare data quality, representation, and bias
- Apply validation, calibration, and interpretability methods
- Build workflow, safety, privacy, and monitoring controls
- Build a Healthcare AI Model Evaluation Pack

Course Agenda

Day 1: Clinical Problem and Data Framing

- Healthcare Intended-Use Statement Canvas
- Clinical Workflow and Decision-Point Map
- Outcome, Label, and Proxy Definition Sheet
- Healthcare Data Provenance Register
- Representation and Bias Risk Checklist

Day 2: Algorithm and Model Selection

- Supervised Learning Decision Matrix
- Unsupervised Learning Use-Case Map
- Baseline Model Comparison Table
- Feature Relevance and Leakage Review
- Model Complexity and Interpretability Tradeoff Grid

Day 3: Validation and Calibration

- Training, Validation, and Test Split Protocol
- Clinical Performance Metric Selection Matrix
- Calibration Curve and Reliability Diagram
- Subgroup Performance and Fairness Scorecard
- External Validation Evidence Template

Day 4: Workflow Integration and Monitoring

- Human-AI Workflow Integration Blueprint
- Privacy-Aware Data Handling Control Map
- Patient Safety Hazard Analysis
- Model Drift and Performance Monitoring Board
- Escalation, Override, and Retirement Decision Path



Day 5: Evaluation Practice and Capstone

- Suggested Exercise: Frame a Healthcare AI Use Case
- Suggested Exercise: Compare Candidate Algorithm Families
- Suggested Exercise: Review Validation and Calibration Evidence
- Suggested Exercise: Design Workflow and Monitoring Controls
- Capstone Exercise: Healthcare AI Model Evaluation Pack

Practical Exercises

The course uses suggested activities to connect model evidence with healthcare workflow and governance decisions.

- Suggested activity: convert a clinical analytics request into an intended-use statement, outcome definition, and data requirements
- Suggested activity: compare baseline, supervised, and unsupervised choices against performance and interpretability needs
- Suggested activity: assess calibration, subgroup performance, bias, safety hazards, and privacy controls
- Suggested activity: assemble validation evidence, workflow controls, monitoring signals, decision owners, and escalation paths

FAQs

Who suits the Healthcare AI Model Selection and Validation Training Course, and what does it assume?

The course suits analytics, digital health, informatics, AI engineering, and clinical governance personnel. It assumes participants can interpret basic analytical results and healthcare workflows.

How does healthcare AI model evaluation differ from general AI strategy training?

Healthcare AI model evaluation focuses on intended use, data representation, algorithm choice, validation, calibration, interpretability, workflow fit, safety, and monitoring rather than enterprise AI priorities and investment planning.

How should teams select an AI model for a healthcare application?

Teams should match the intended decision, data structure, error consequences, interpretability needs, workflow constraints, and validation evidence to the candidate algorithm family.



What evidence supports healthcare AI model validation?

Useful evidence includes data provenance, split protocols, performance metrics, calibration results, subgroup analysis, external validation, interpretability records, workflow testing, safety controls, and monitoring plans.

How should healthcare AI models be monitored after deployment?

Teams should monitor data drift, performance change, calibration, subgroup effects, workflow overrides, safety signals, and escalation triggers, with named owners and retirement criteria.

Conclusion

Participants take back a Healthcare AI Model Evaluation Pack linking intended use, data evidence, algorithm choice, validation, calibration, interpretability, workflow controls, and monitoring. It changes how teams compare and approve models for healthcare applications. The pack supports traceable decisions, patient safety review, privacy-aware development, and continuing performance oversight.