Certified AI Manager

4-day intensive training with certification option (Austrian Standards)

The **AI Manager** training provides a comprehensive overview of AI methods, their practical application, legal and ethical frameworks, and the management of successful AI projects. Participants learn to realistically assess opportunities and risks, select appropriate technologies, and manage AI initiatives from concept to operation.

Target audience

This program is designed for project and program managers in AI and digitalization initiatives, executives from IT, data analytics, innovation, and product development, as well as consultants, change agents, and compliance or governance officers. It also addresses professionals and managers who want to establish a legally compliant and responsible use of AI.

Prerequisites

No technical knowledge is required. Curiosity and openness to new technologies are sufficient.

Language

German or English

Format

Online or in-house (on request)

Certification (optional)

Austrian Standards
"AI Manager"

AUSTRIAN STANDARDS

Module 1 - Fundamentals and diversity of AI methods

- ✓ Introduction to AI: definition, history, technological foundations
- ✓ Learning principles: what does AI learn, what do humans know about it
- ✓ Overview of key methods:
  - Machine learning: linear regression, decision trees, nearest neighbour, XGBoost
  - Training types: supervised, unsupervised, reinforcement learning
  - Deep learning: neural networks, overfitting/underfitting, concept/data drift
  - Model evaluation
  - Natural language processing: from sentiment analysis to LLMs
  - Computer vision: segmentation, classification, detection
  - Transfer learning: simple and complex approaches
  - Generative AI: architectures and current developments

Module 2 - Implementation and evaluation of AI models

- ✓ Identifying and preparing data sources
- ✓ Annotation steps and use of experts
- ✓ Ensuring data quality (representation, statistical distribution)
- ✓ Creating training, test, and validation datasets
- ✓ Requirements for storage, computing, and bandwidth
- ✓ Selecting AI models or providers
- ✓ Evaluating external models: validity and transferability to own projects

Module 3 - Legal and ethical frameworks

- ✓ AI development:
  - EU AI Act
  - Data governance
  - Data protection, copyright
- ✓ AI usage:
  - User obligations, data subject rights
  - Liability issues, AI liability directive, sanctions
- ✓ Ethical challenges:
  - Bias, transparency, data protection
  - Gender, diversity, inclusion
  - AI Act as ethical reference framework
- ✓ Case study: analysis and discussion

Module 4 - Management and operations of AI projects

- ✓ Planning AI projects:
  - Identifying use cases
  - Roles and responsibilities in project teams
  - ROI, feasibility, and risk analysis
  - Data management and data governance
- ✓ Implementation and operations:
  - User perspective and acceptance
  - Testing and evaluation methods
  - Deployment strategies
  - Monitoring and maintaining AI systems
  - Best practices for sustainable operations

Bactrya

Upcoming dates and further information can be found here:
https://www.bactrya.com/trainings/ki-manager