

kanohi

# Course Offerings 2024 „Artificial Intelligence“

The modular AI training by Kanohi



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## Key Benefits

- ✓ Finally join AI discussions!
- ✓ Learn to harvest the potential of AI
- ✓ Identify low hanging AI fruits
- ✓ Understand the limitations and risks of AI
- ✓ Improve communication with your AI team

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## 5 Reasons for a Course by Kanohi

- ✓ Designed for people without technical background
- ✓ No technical and mathematical prerequisites
- ✓ Focus is on relevant key concepts
- ✓ Trainer with many years of training and business experience
- ✓ Unique learning experience develops intuition for what works
- ✓ Maximum flexibility thanks to modular system:  
Courses with 2-6 hours duration with content selected by you

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## Our Modular Course System

Our AI courses can be configured individually from a large selection of modules. Choose the modules for your course and focus on the topics which really matter for you.

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## Number of participants, Location, Languages, Cost

- Maximum **number of participants: 10**
- We offer our courses **everywhere in Switzerland**
- We train in **German** or **English**
- The price for the course is independent of the number of participants and is calculated as follows:
  - 200.- basic flat fee (transport time and tickets)
  - Hourly rate of 180.- for the total duration of the course (= sum of all selected modules)

## Available Course Modules

### **MODULE 1: MOTIVATION AND CURRENT DEVELOPMENT**

(30min)

- Current development
- What is „exponential growth“?
- Moore's law and its equivalent in AI
- What is driving the current progress?
- Demonstration of latest tools and research results

### **MODULE 2: WHAT IS INTELLIGENCE?**

(30min)

- Definitions
- Forms of intelligence
- Problem of measurement, IQ-Test
- Strong vs. weak AI
- „Supervised Learning“ and „Reinforcement Learning“

### **MODULE 3: TECHNOLOGY BASICS - ARTIFICIAL NEURAL NETWORKS**

(90min)

- What exactly does *learning* mean?
- How do artificial neurons work? What are parameters?
- Comparison with biological neurons
- Artificial neural networks

### **MODULE 4: TECHNOLOGY ADVANCED - „LARGE LANGUAGE MODELS“**

(40min)

- How do LLMs work?
- How are they trained and where does the training data come from?
- What is the „Context Window“?
- How does RAG work („Retrieval Augmented Generation“)?

## **MODULE 5: PRACTICAL AI APPLICATIONS**

(45min, knowledge equivalent to module 4 recommended)

- ChatGPT and similar systems: applications and limits
- Introduction into „Prompt Engineering“
- Creating apps/GPTs
- Tips & tricks
- Working with image generators like DALLE-3

## **MODULE 6: ENTERPRISE KI**

(45min, knowledge equivalent to module 4 recommended)

- Integrate AI into applications: API access
- AI models: properties and capabilities, open source vs. closed source
- Integration options
- Typical use cases and solutions

## **MODULE 7: LEARNING WITH AI**

(15min)

- Applications in job and school
- Limits
- Tips & tricks

## **MODULE 8: RISKS OF CURRENT AI**

(35min, focus on society)

- What is AI bias? Why training AI on our past is problematic.
- Hallucinations, toxic content, dangerous recommendations
- AI and Social Media
- The problem with „Foundation Models“
- The „Poisoning the Well“ problem

## **MODULE 9: CHANCES OF AI**

(20min, focus on society)

- Current examples
- Future possibilities

## **MODULE 10: SUPERINTELLIGENCE**

(25mins)

- Terms AGI, ASI
- Technical routes to achieve superintelligence
- When will it happen?
- Chances and risks of **future** AI (basics of „AI Safety“)
- Could humans control a superintelligence?

## **MODULE 11: AI ETHICS AND AI SAFETY**

(15min, knowledge equivalent to module 8 recommended)

- Requirements for ethical and safe AI
- Compliance of current AI systems

## **MODULE 12: FAKE NEWS, PROPAGANDA AND DESINFORMATION**

(30min, modul in development: available soon)

## **MODULE 13: AI AND PHILOSOPHY**

(20min, knowledge equivalent to modules 2 and 3 recommended)

- Intelligence
- Consciousness: Qualia, „Philosophical Zombies“, thought experiment „Chinese Room“ etc.
- Self awareness. Measurement using mirror test
- Human like AI. The „Turing Test“
- Current state and outlook

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## Your Trainer

Marco Lardelli (born 1969 in Zurich) is a Swiss entrepreneur, Data Scientist and trainer. After his studies in physics at ETH Zurich, he worked as a high school physics teacher and later worked as technical director in several startups in the web and mobile businesses. Since 2009 he is exploring Machine Learning technology and artificial intelligence (AI). He is the founder and owner of Kanohi, which offers Data-Mining software, Data Science consulting and technical trainings.

### Social Media:

- [Blog](#)
- [X\(Twitter\)](#)
- [LinkedIn](#)

### Websites:

- [Online course about „Large Language Models“](#) (free)
- [ki-kit.ch](#): AI course for teenagers and schools (free, German)
- [dissected.it](#) : experimental website about natural language AI („word embeddings“)





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