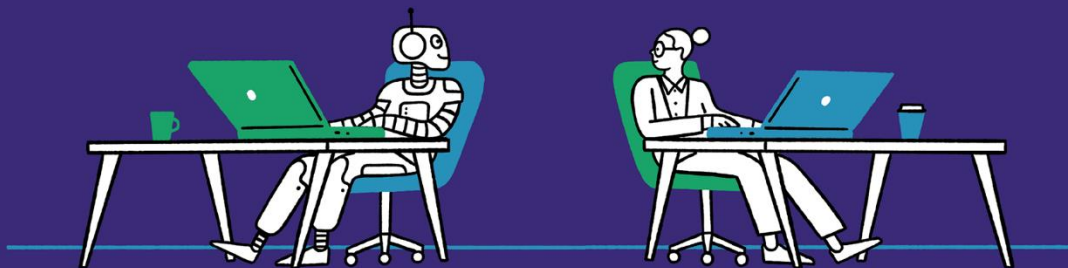




AI Campus

The Learning Platform
for Artificial Intelligence



**Open microcredentials on AI, designed with
recognition and curriculum integration in mind,
for use in HE, VET & LLL**

Mike Bernd & Jochen Ehrenreich

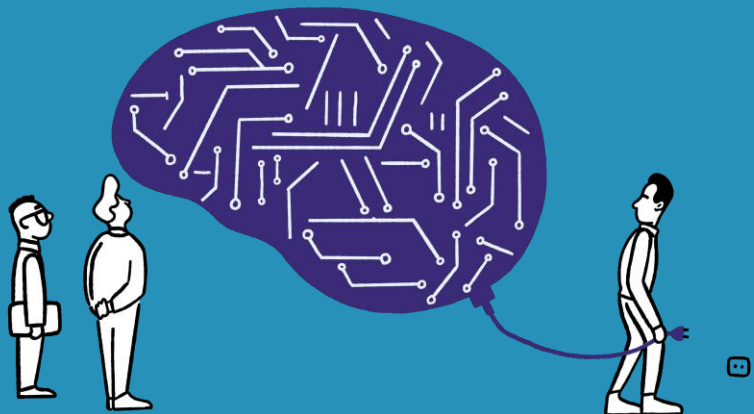
**In Germany, 90 % know the term AI.
Only 29 % of them are confident
in explaining AI.¹**

**By 2026, Germany will lack
780,000 people with tech skills.²**



¹ Pfaff-Rüdiger, S., Herrmann, S., Cousseran, J., & Brüggen, N. (2022). Kompass: Künstliche Intelligenz und Kompetenz 2022. Wissen und Handeln im Kontext von KI (IFF – Institut für Medienpädagogik in Forschung und Praxis (ed.)). München: kopa.ed. (Deutschlandweite Repräsentativbefragung, N = 1.602)

² Stifterverband für die Deutsche Wissenschaft e.V. (2021). Tech-Spezialisten gesucht! Bedarf an Personal mit technologischen Kompetenzen wächst. Diskussionspapier 4. Essen: Stifterverband für die Deutsche Wissenschaft e.V. / McKinsey & Company.



**Our vision:
An AI-competent society.**



Why the AI Campus?

Context

- Germany is struggling with a severe **shortage of skilled workers** and is in danger of losing its global competitiveness.
- Everyone in society needs to **better understand** possibilities and limitations of **AI**
- Thus, the AI Campus is part of the **AI Strategy** and the **Digital Strategy** of the German Federal Government

Duration

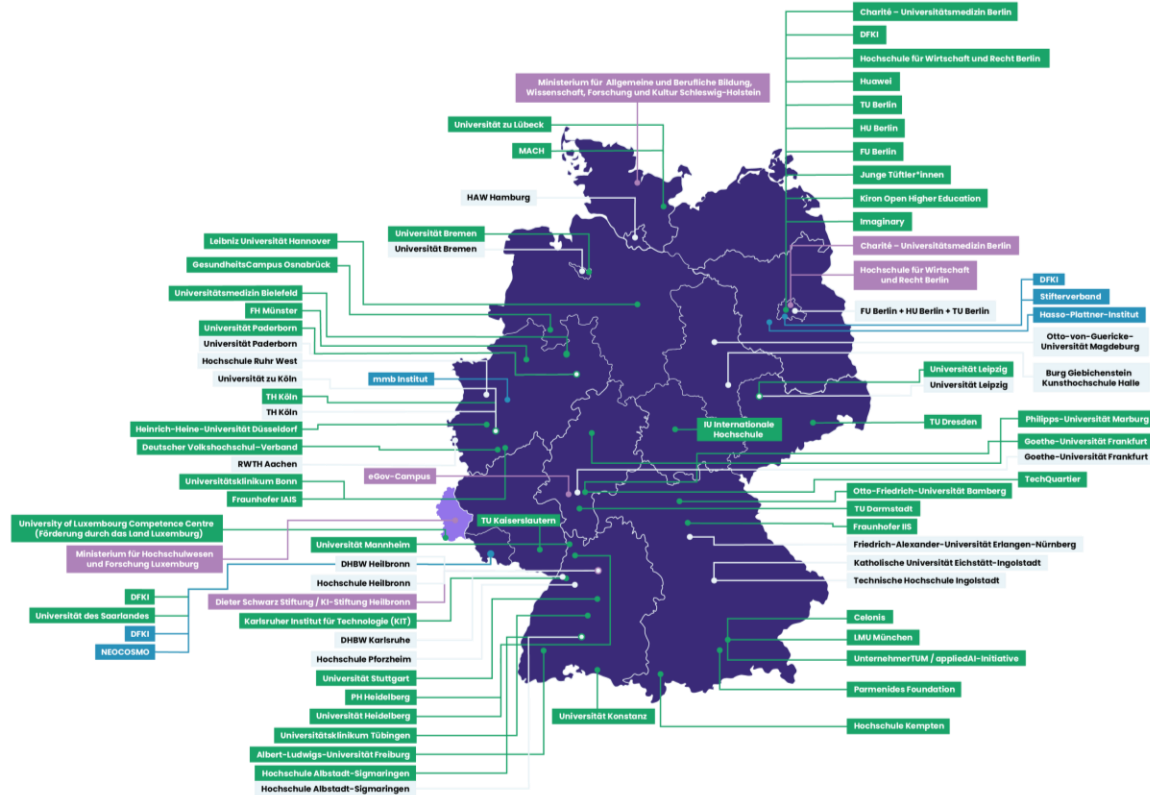
- **R&D project**: October 2019 to December 2024
- **Independent initiative** from 2025 onwards

Goals

- **Educate 100.000 people** on Artificial Intelligence & Data Literacy by 2025
- **Support** more than **100 HEIs** in Europe with AI learning by 2030

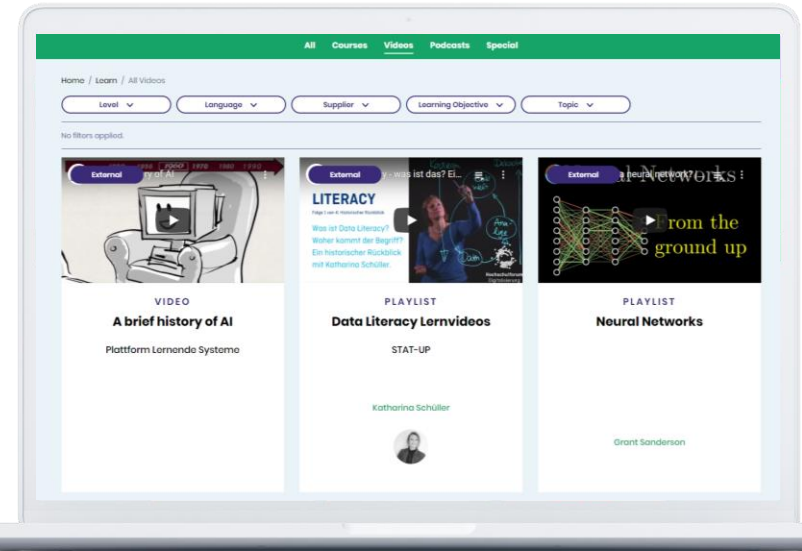
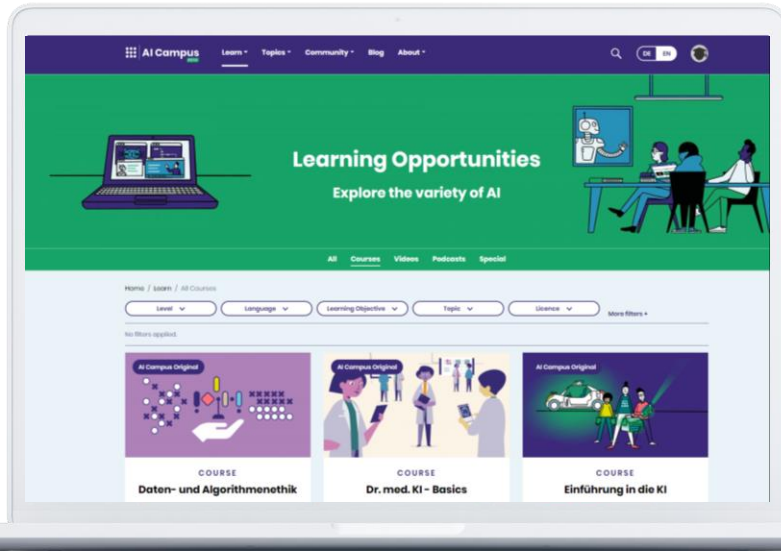


AI Campus Network





AI Campus: A digital learning platform on AI





Who are the target groups?



Students



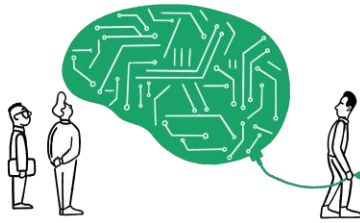
Professionals



Lifelong Learners



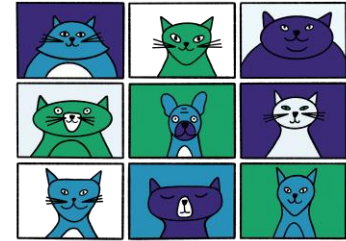
Which skills and subject domains are in focus?



Data Literacy



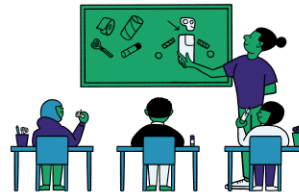
AI Basics



Machine Learning



Medicine



Education



Industry



What do learners need?

Digital formats depend on their learning objectives (*& not everything needs to be assessed & certified*)

Objectives

Digital formats



Information & Knowledge

Micro formats (podcasts, videos, blog posts, publications, ...)
Online courses / MOOCs (mainly informative or basic knowledge)
Online events / livestreams



Skills

Micro learning formats (simulations, learning videos, programming exercises, ...)
Online courses / MOOCs
Blended learning formats (courses, trainings, workshops, ...)



Qualifications & Certificates

Digital badges
Micro credentials & micro degrees
Online and blended study programmes

Communication & Public Relations

Learning opportunities



Where do we stand? Some facts and figures:

**>50
Partners**

for the development
of learning opportunities

**>23.000
Profiles**

on the
AI Campus

**>30.000
Downloads
& Streams**

of AI Campus
podcasts

**>500.000
Individual
Visitors**

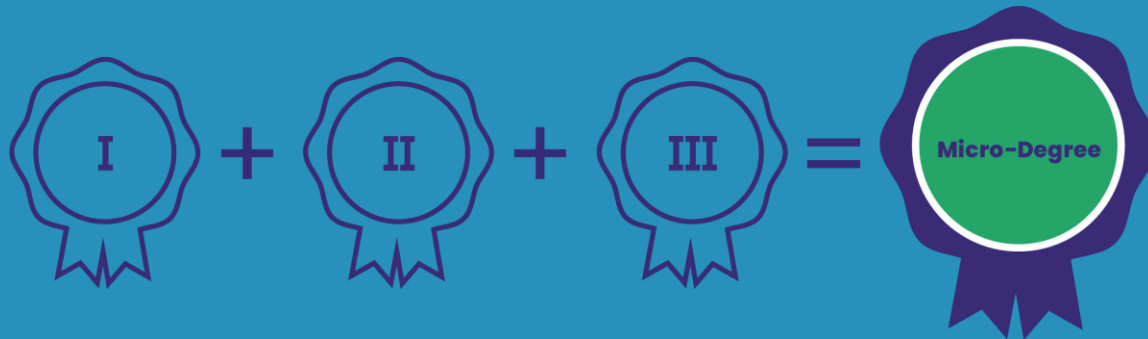
on the AI Campus
website

**>2 Millionen
Views**

on YouTube
and Vimeo



Micro-Credentials & Micro-Degrees





Context in Germany

Germany: Increasing discussion on Micro-Credentials and/or Micro-Degrees as a flexible and innovative form of qualification

- *"Higher education institutions are recommended to examine the potential of micro-credentials and badges for their higher education teaching." (HRK, 2020)*
- *Federal government wants to "examine" the introduction of micro-degrees within the framework of continuing academic education (SPD et al., 2021)*
 - Connecting the „AI skills“ context with the „Micro-Credentials“ context
 - “AI Campus 2.0“ as a laboratory for experimentation and implementation



Micro-Credentials & Micro-Degrees on the AI Campus

- Orientation towards the German Rectors' Conference (2020), UNESCO (Oliver, 2021) and the European Commission (2020)
- **Micro-Degrees** = A set or **aggregation of shorter learning units with stackable content** (AI Campus courses that are certified with a Micro-Credential).
- **Micro-Credentials** = Certified digital learning unit with 4 key requirements

Demonstration of
Learning Outcome
(Knowledge / Skill)

Transparent
Assessment

Stand-alone
Value

Quality
Assurance



Records of Achievement


- An **AI Campus record of achievement** is awarded to those who have achieved at **least 60 percent of the** total number of **points in the** sum of all **assessed tasks of** an online course on the learning platform („Basic Setting“).
- **Higher Education Collaboration** (University of Bonn)
 - 2 ECTS (Online Course + Onsite Exam) Studium Generale (free electives) in medicine
- **Further Education Collaboration** (State Medical Chamber of Baden-Württemberg)
 - 12 Credits in Continuing Medical Education (Online Course + Online Exam)







 Search


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Mike Bernd
 Head of Content at AI Campus

Licenses & certifications


Daten- und Algorithmenethik
 AI Campus – The Learning Platform for Artificial Intelligence
 Issued Nov 2022
 Credential ID KI-Campus
[Show credential](#)


Dr. med. KI - Clinics
 AI Campus – The Learning Platform for Artificial Intelligence
 Issued Jun 2022
 Credential ID KI-Campus
[Show credential](#)


Dr. med. KI - Basics
 AI Campus – The Learning Platform for Artificial Intelligence
 Issued Jan 2022
 Credential ID KI-Campus
[Show credential](#)



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[Administration](#)

Certificate Verification

✔

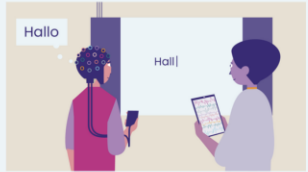
The certificate for the verification code *xiros-nimuc-bulep-nikeh-kifal* is valid.

KI-Campus verifies that the candidate completed the course **Dr. med. KI - Clinics** and passed the necessary exercises and exams to earn a course certificate.

Gain a **Record of Achievement** by earning at least **60%** of the maximum number of points from all graded assignments.

Find out more in the [certificate guidelines](#).

Course Info



Dr. med. KI - Clinics


Offered by: Charité – Universitätsmedizin Berlin

Course dates: since Nov 10, 2021

User Info

Issued for: **Mike Bernd**

Open Badge



Certificate Info

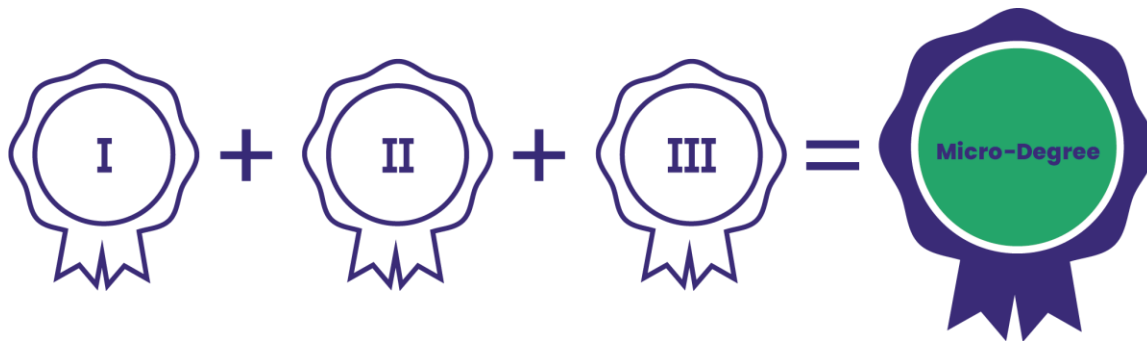
Certificate type: Record of Achievement

Issued at: 2022-06-30

Result: 117.1 of 120.0 points (97.6%)



Micro-Degrees on the AI Campus



At least 3 courses
with stackable
content
(specialisation)

Workload 90-150
hours for entire MD









Certificate of
Achievement (MC)
per course

Fulfilment of the
4 criteria for MC

Currently optional
award of ECTS
credits



Example 1: AI_VET

<p>KI-Campus-Original</p>  <p>KURS AI_VET I – KI im Kontext von Lehren und Lernen</p> <p>Universität Mannheim Universität Stuttgart</p> <p>Prof. Dr. Dirk Ifenthaler Prof Dr. Kristina Kögler</p>  <p>jederzeit</p>	<p>KI-Campus-Original</p>  <p>KURS AI_VET II – Learning Analytics</p> <p>Universität Mannheim Universität Stuttgart</p> <p>Prof. Dr. Dirk Ifenthaler Prof Dr. Kristina Kögler</p>  <p>jederzeit</p>	<p>KI-Campus-Original</p>  <p>KURS AI_VET III – KI als Inhalt der beruflichen Bildung</p> <p>Universität Mannheim Universität Stuttgart</p> <p>Prof. Dr. Dirk Ifenthaler Prof Dr. Kristina Kögler</p>  <p>jederzeit</p>	<p>KI-Campus-Original</p>  <p>KURS AI_VET IV – KI als Werkzeug in der beruflichen Bildung</p> <p>Universität Mannheim Universität Stuttgart</p> <p>Prof. Dr. Dirk Ifenthaler Prof Dr. Kristina Kögler</p>  <p>jederzeit</p>
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Micro-Credentials
(approx. 25-50 hours each)

Micro-Degree
(approx. 150 hours)



European Digital Credentials for Learning (EDC)



Key Learnings from Practice

1) Focus on the knowledge & skills gap:

AI as a topic helps with the acceptance and recognition of micro-credentials in higher and in further education.

2) Keep it simple:

Don't overthink the basic quality standards and make it understandable to non-experts (e.g. in industry).

3) Keep it flexible:

Different sectors have different needs. We cannot impose all our academic standards on non-formal education.

4) Collaborate:

One of the great potentials of open and inclusive (digital) learning units certified with micro-credentials is collaboration. Implement them in strong networks!



Common Microcredential Framework (CMF)



1) The CMF is a collaborative effort by leading European online education providers:

The CMF enables the creation of high-quality MOOCs (Massive Open Online Courses) across various European languages and offers academic credits based on the European Qualification Framework (EQF) and other recognized national qualification frameworks. It unifies qualification standards, promoting transparency and cross-border recognition of qualifications within Europe's higher education institutions.

2) To meet the requirements of the CMF, microcredentials must meet the following specifications

1. Has a **workload (or study time) of 4–6 ECTS (100–150 hours)**
2. Be levelled at **Levels 5–8 in the European Qualification Framework**
3. Provides a **summative assessment that awards academic credit**
4. Uses a **reliable method of ID verification**
5. Provides a **transcript** with the learning outcomes, study hours required, EQF level, and number of credit points.



Challenges



Challenges

1) **Assessment:**

Recognition and portability of competences require transparent and secure assessment of learning outcomes. AI Campus is experimenting with several scenarios, such as

- on-site assessment
- online assessment with proctoring
- online assessment without ID verification
- issuing only certificates of participation, leaving the assessment to the recognizing institution

2) **Reviewing and updating Learning opportunities:**

The fast pace of development in the field requires courses, assessments and credentials to be regularly reviewed and updated.

3) **AI competence framework:**

To foster interdisciplinary collaboration and to develop a competence framework on AI, a research group is bringing together researchers with various backgrounds.

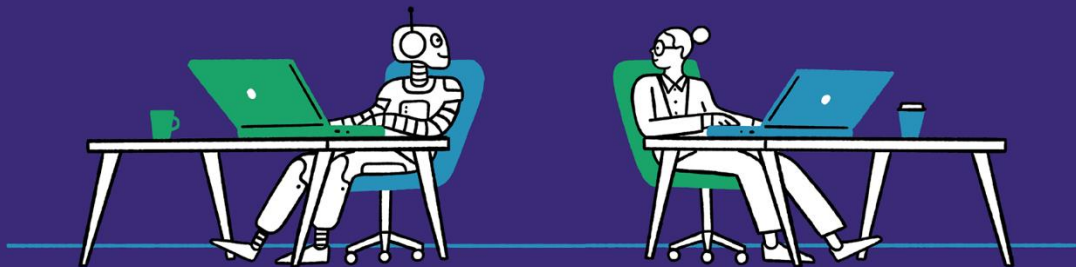


Funding



Partners “AI Campus 2.0”





**Our mission: We strengthen AI skills
through innovative, digital
learning opportunities.
Let's work together!**



Contact

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www.ai-campus.org



@KICampus #KICampus