5th Jubilee Edition

DEGGENDORF INSTITUTE of TECHNOLOGY **DIT**
European Campus Rottal-Inn

Pfarrkirchen, Germany

DigiHealthDayS-2024
Global Digital Health — today, tomorrow, and beyond

11-15 NOV 2024

DigiHealthDay-2024 @ DIT-ECRI, Bavaria, Germany
November 6 - 15, 2024

Erasmus+ Blended Intensive Program on AI and ML in Healthcare

"AI for Health (AI4H): Current State, Trends and Perspectives"

Format: Blended (Physical & Virtual) Short Training Course
Students do not have to pay the student service fee (Studentenwerksbeitrag).

Duration: 7 days, 6 – 8 hours per day

Days: 6-7th of November (virtual), 11 - 15th November, 2024 (onsite), including the DigiHealthDay Symposium on the 14-15th. Make sure to **register** seperately for the event.

Co-funded by the European Union

www.th-deg.de/digihealthday

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Participating Institutions:
- Deggendorf Institute of Technology (DIT, Germany)
- University of Agder (UiA, Norway)
- Luleå Technical University (LTU, Sweden)
- Czech Technical University (CTU, Czechia)
- Technical University of Catalonia (UPC, Spain)
- AI Sweden

Credit value: 4 ECTS = 120 hours
Including: Attendance = 46 hours and Self-study = 74 hours

Learning Objectives:
1. Understand the fundamentals, applications, benefits, and limitations of AI and Machine Learning in healthcare.
2. Learn the theory and practice of Machine Learning, Neural Networks, and Large Language Models for healthcare applications.
3. Evaluate data quality, algorithmic bias, interpretability, and explainability in AI models for healthcare.
4. Discuss ethical considerations and regulatory requirements for AI in healthcare.
5. Explore user experience design principles for AI in healthcare, focusing on trust and user-centric solutions.
6. Understand the processes for evaluating, validating, and deploying AI solutions from research to practical healthcare applications.

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Content: Course Structure
(Training will be delivered in 90-minute blocks)

	6 November (Wed) Virtual	7 November (Thu) Virtual	11 November (Mon) Onsite	12 November (Tue) Onsite	13 November (Wed) Onsite	14-15 November (Thu-Fri) Onsite
9:45 to 11:14	Foundations of AI and ML in healthcare	Data, Algorithms, and Models	Fundamentals of Machine Learning	Deep Learning and LLMs in Healthcarea	UX Design in Healthcare AI	DHD 2024 Symposium
			Break			
11:30 to 13:00	Foundations of AI and ML in healthcare	Data Quality and Trust in Health AI	Fundamentals of Machine Learning	Deep Learning and LLMs in Healthcarea	UX Design in Healthcare AI	DHD 2024 Symposium
			Break			
14:00 to 15:30			Fundamentals of Machine Learning	Deep Learning and LLMs in Healthcarea	Evaluation, Validation, and Deployment of AI4H	DHD 2024 Symposium
			Break			
15:45 to 17:15				Deep Learning and LLMs in Healthcarea	Evaluation, Validation, and Deployment of AI4H	DHD 2024 Symposium

Online Activities

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Teaching Methods:
Lecture and training 25%
Case studies and discussion 25%
Group work, hands-on 50%

Participation conditions:
NO FEE, formal application, enrollment and registration required, seats limited to 50

Application Deadline for Visiting Students:
July 1 (online)

Application Deadline for DIT Students:
October 15 (online)

Cultural & Social Events:
'Bavarian Lunch', visit to a local sightseeing place (TBA)

Prof. Dr. Dipak Kalra
International Invited Chair

Prof. Dr. Horst Kunhardt
Scientific Committee Chair

Prof. Dr. Georgi Chaltikyan
Organizing Committee Chair

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