2LIKE

ARTIFICIAL INTELLIGENCE FOR INDIVIDUALISED LEARNING PATH AND PROCESSES

AI-supported customised studying

DEVELOPING ADAPTIVE LEARNING SYSTEMS

universität uulm

PROJECT IDEA

DURATION: 2021-2025

THE CORONA PANDEMIC AND THE RESULTING ONLINE TEACHING SHOWED ONCE AGAIN THAT TRADITIONAL TEACHING HAS ITS LIMITS

LEARNING IS AN INDIVIDUAL PROCESS THAT DEMANDS PERSONALISATION

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EXPLOIT **AI-BASED TECHNIQUES** TO TAILOR LERANING CONTENT AND LERNING SUPPORT TO THE INDIVIDUAL PERSON

DEVELOPMENT OF **INDIVIDUALISED LEARNING OPPORTUNITIES**, THAT ARE **INDEPENDENT OF TIME AND PLACE**

GENERAL GOALS: INDIVIDUAL **ACADEMIC SUCCESS & REDUCTION OF THE DROPOUT RATE**

2LIKE

REUSABILITY:
THE FINDINGS ARE AIMED TO BE TRANSFERRED TO THE SCHOOL OF ADVANCED PROFESSIONAL STUDIES AND BEYOND.

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HETEROGENEITY OF INCOMING MASTER'S STUDENTS – DIFFERENT BACKGROUNDS:

E.G. PREVIOUS KNOWLEDGE, STUDIES SUBJECT, UNIVERSITY, COUNTRY OF ORIGIN

MICRO AND MACRO LEVEL OF ADAPTIVITY

PSYCHOLOGY

2LIKE

COMPUTER SCIENCE

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DEVELOPMENT OF INDIVIDUALISED LEARNING OPPORTUNITIES
TWO ADAPTIVE APPROACHES

↙ ↘

MACRO LEVEL

ADAPTIVE LEARNING PATHS
ADAPTING DIGITAL LEARNING CONTENTS ACCORDING TO INDIVIDUALS NEEDS

MICRO LEVEL

PERSONALISED FEEDBACK
SUPPORTING INDIVIDUAL LEARNING PROCESSES INDIVIDUALLY

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BOTH LEVELS USE AI-SUPPORTED METHODS & BEST PRACTICES OF AUTOMATISED TEACHING AND LEARNING SYSTEMS

NEXT STEPS

IMPLEMENTATION OF SPECIFICALLY INDIVIDUALISED DIGITAL LEARNING OPPORTUNITIES IN MASTER'S DEGREE PROGRAMMES THAT SPECIFICALLY ADDRESS THE HETEROGENEITY OF THE INITIAL QUALIFICATION

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STARTING WINTER SEMESTER 2022/23:

INTEGRATION OF INITIAL PROJECT RESULTS INTO TEACHING AT THE UNIVERSITY OF ULM:

USE OF NEW METHODS & LEARNING ACTIVITIES (SUCH AS APPLICATION TASKS OR QUIZZES) IN THE MASTER'S DEGREE PROGRAMMES *ARTIFICIAL INTELLIGENCE* AND *COGNITIVE SYSTEMS*

2LIKE

CONTRIBUTION TO THE **SUSTAINABLE FINANCING** OF THE DEVELOPED METHODS

PROVISION OF THE FIRST **PROTOTYPES OF THE TEACHING-LEARNING SYSTEM**

THE FINDINGS ARE AIMED TO BE TRANSFERRED TO THE *SCHOOL OF ADVANCED PROFESSIONAL STUDIES* (SAPS) AND BEYOND.

RESPONSIBILITY
2LIKE

PROJECT MANAGEMENT

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OTHER APPLICANTS

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für Bildung
und Forschung

Baden-Württemberg
MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST

WITHIN THE FRAMEWORK OF THE "ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION" FUNDING LINE