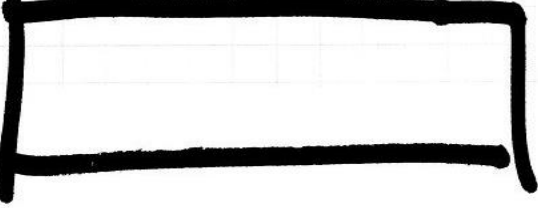



Applications of and Introduction to Artificial Intelligence (AIAI = A2I2)

WHO



Course Setup
(Corona Edition)

How



WHERE

WHAT



WHEN

WHY



What you will learn in this course

◆ Content

- What is Artificial Intelligence (AI), use cases and applications of AI
- AI concepts and terms like machine learning and deep learning
- Broad-ranging discussion: key subdisciplines within AI, algorithms, applications
- AI frameworks for machine learning and possible applications
- Hands-on coding in Python / (Jupyter-)Notebook-based environment.

◆ Prerequisites

- An open, inquisitive and curious mind
- Basic object-oriented coding skills (preferably basic Python knowledge)

◆ Our Goal

- Students leave excited about the numerous applications and huge possibilities in the field of AI, which continues to expand human capability beyond our imagination!



Lecturers



Prof. Dr.
Markus Breunig

BrM



Prof. Dr.
Kai Höfig

HoKa



Prof. Dr.
Jochen Schmidt

SJ



Prof. Dr.
Marcel Tilly

TiMa



Timeline (subject to change)

- ◆ 4 SWS / Week
- ◆ Wednesdays
17:15 – 20:30
- ◆ Some lectures:
flipped classroom
- Some homework to be
prepared
before (!!!) the class
- ◆ Draft-Schedule – subject
to change

Date	Subject	Lecturer(s)
16.03.2021	Introduction	TiMa
23.03.2021	Basic Classification	HoKa
30.03.2021	Decision Tree Classification	HoKa
13.04.2021	Classifier Evaluation	HoKa
20.04.2021	Artificial Neural Networks	HoKa
27.04.2021	Data Science	HoKa
04.05.2021	Natural Language Processing	TiMa
11.05.2021	Language Understanding and Speech Recognition as a Service	TiMa
18.05.2021	Basic Image Processing	SJ
01.06.2021	SVM-based image recognition	SJ
08.06.2021	Convolutional Neural Networks	SJ
15.06.2021	Vision as a Service	TiMa
22.06.2021	AI applications	TiMa
29.06.2021	Recap und Questions	HoKa+TiMa
06.07.2021	Oral or Written Exams (if possible)	all



Oral Examination (in case)

- ♦ Oral Examination
- ♦ One student – one/two/three/four lecturers (random assignment)
- ♦ 15min
- ♦ Dates and Timeframes will be announced via OSC (6.7.2021 and more)
- ♦ Signup for individual slots will be done in class/via LC
Final examination schedule will be published via LC



Written Examination (in case)

- ◆ 60min-75min
- ◆ Date: 06.07.2021
- ◆ Timeframe: 13:45-17:00
- ◆ Signup for individual slots will be done in class/via LC
Final examination schedule will be published via LC

Questions?