

Applied Deep Learning in Medicine

Who we are

- Institute for AI in Medicine (http://aim-lab.io/)
- Part of Departments of Informatics and Medicine
- Offices at MRI (TranslaTUM) and Garching
- Developing methods for the intersection of AI and medicine
- Close collaboration with medical experts

What is it about?

- Most uni projects are on toy data
- This does not represent real world in several aspects:
 - Messy/unprocessed data
 - Storage/Computing requirements
 - Data protection issues
- Our goal is to train students to work on real data
 - How to preprocess data?
 - How to structure a project?
 - How to communicate with stakeholders?
- Two birds, one stone
 - You get real world experience
 - Datasets from the hospital are explored
 - Also you will have excellent prerequisites for consecutive projects

How will this look like

- 6-8 teams, 3 persons per team -> 18-24 students
- Two supervisors for two groups
- Teams are assigned to tasks on a medical dataset
- (Bi)Weekly progress meetings
- Consultation with medical experts
- Computational resources are available

How will it be evaluated

- Grades will be determined by your
 - presentations during the semester
 - especially your problem solving skills
 - your interaction with other teams
 - your code
 - final presentation
- Grades within teams can differ
- Individual grades will be team grade adapted by contribution

Matching

- We do not expect you to be experts
- We do expect that you have done related courses and have a background in machine learning
- To assess your knowledge we provide a voluntary option to fill in a google form which tells us about your background
- All data entered will be only used for the purpose of the practical and deleted right after
- Based on your answers we will prioritize for the matching
- People who are accepted to the practical will need to submit proofs for their answers (transcripts, etc)
- Questions?

https://forms.gle/GRffaRFAyyj6o4pa7