Dear all,

Welcome to the course "Artificial Intelligence in Medicine and Life Science". Below you find some more info ahead of next week.

Teachers:

Sonja Aits (course coordinator), sonja.aits@med.lu.se, Phone: 0733 875 988

Mattias Ohlsson, mattias@thep.lu.se

Marcus Klang, marcus.klang@cs.lth.se

Location: BMC I1345, Sölvegatan 19

Examination:

Students will design an artificial intelligence project in their own research domains on Day 3 and 4 and present it on Day 5. Detailed instructions will be given in the course.

Attendance:

If you are unable to attend the course in full, please inform the course leader by email prior to the start of the course.

Resources:

To help design your project, you are expected to read at least one research article related to your projects. Suitable articles can for example be found on:

https://www.ncbi.nlm.nih.gov/pubmed/

https://www.biorxiv.org/

https://arxiv.org/

For those of you who want to deepen your knowledge after the course, you can find additional material on https://github.com/Aitslab/training.

Monday Dec 2

09:00-09:45	Welcome and introduction round	Sonja Aits	I1345
09:45-10:15	Introduction: what is AI and how can it be used in medicine and life sciences?	Sonja Aits	I1345
10:15-10:45	*Fika*		
10:45-12:00	AI concepts and tasks I	Mattias Ohlsson	I1345
12:00-13:00	*Lunch break*		
13:00-14:00	AI concepts and tasks II	Sonja Aits	I1345
14:00-14:30	*Fika*		
14:30-15:30	AI research experiences	Sonja Aits	I1345

Tuesday Dec 3

10:00-12:00 *(fika around 10:00-10:30)*	AI Concepts and Tasks III	Sonja Aits	I1345
12:00-13:00	*Lunch break*		
13:00-16:00	AI Concepts and Tasks IV	Mattias Ohlsson	I1345

Wednesday Dec 4

09:00-10:30	Applications of AI in Medicine and Life Sciences	Sonja Aits	I1345
10:30-11:00	*Fika*		
11:00-11:30	Data types and sources in medicine and life sciences	Sonja Aits	I1345
11:30-12:00	Developing your AI project	Sonja Aits	I1345
Afternoon	Independent project work		

Thursday Dec 5

09:00-11:00 *(fika around 10:00-10:30)*	Societal, ethical and legal implications of AI	Sonja Aits	I1345
11:00-12:00	AI research at Lund University	Sonja Aits	I1345
Afternoon	Independent project work		

Friday Dec 6

09:00-12:00 *(fika around 10:15-10:45)*	Student presentations and discussion	Sonja Aits, Marcus Klang	I1345
12:00-13:00	*Lunch break*		
13:00-14:00	Student presentations and discussion, continued	Sonja Aits, Marcus Klang	I1345
14:00-14:30	*Fika*		
14:30-15:00	What to do next?	Sonja Aits	I1345
15:00-15:15	Wrap up	Sonja Aits	I1345