

Auto-grAId hackathon

An interdisciplinary hackathon
on AI-powered grading

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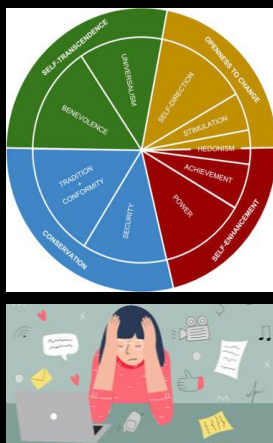
19/01/2022



Welcome!

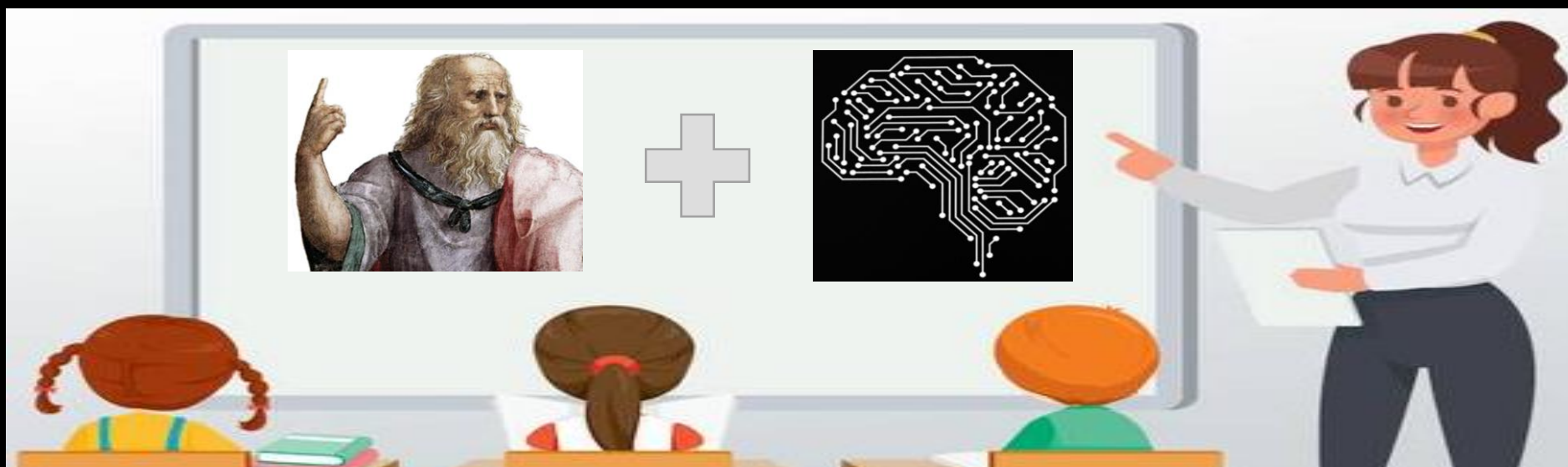
- Thank you for coming by so early in the morning!
- Get yourself comfy, grab a cup of coffee and some pastries
- We are all here to have a good day 😊





Cognitive modelling Robotics Problem-solving

Social simulation



Teaching responsible AI design
Paradigm: ethical by **designer**

Grading in COVID years

Exam 2020-12... 45/216 20.57 / 40 (51%) 216/216 Test Student

Q1: what are Neural Networks
Answer: Neural networks are...
Grade: /3

Q2: ...

Assessment
Grade out of 40

Assignment Comments
Add a Comment

Submit

Download Submission Comments

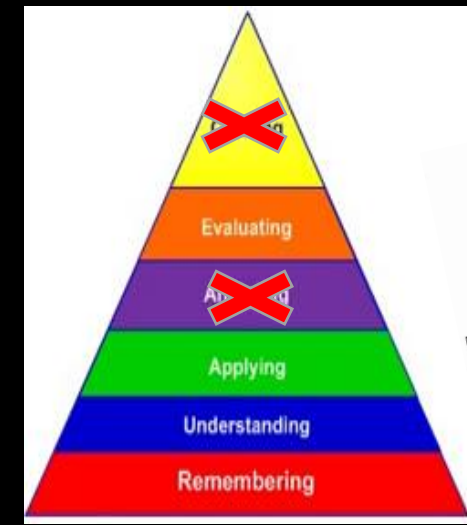
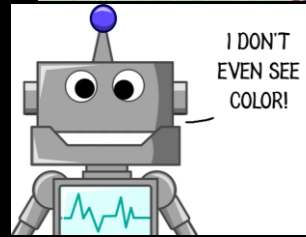
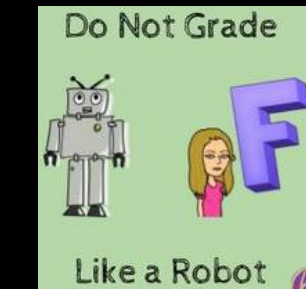
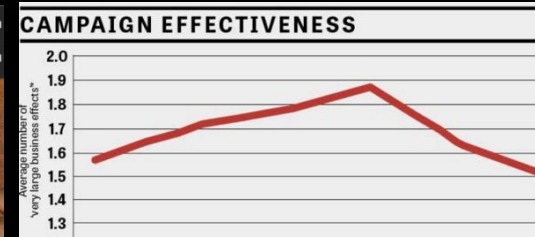
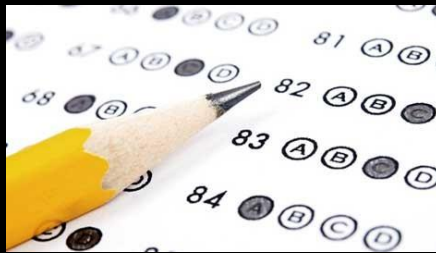
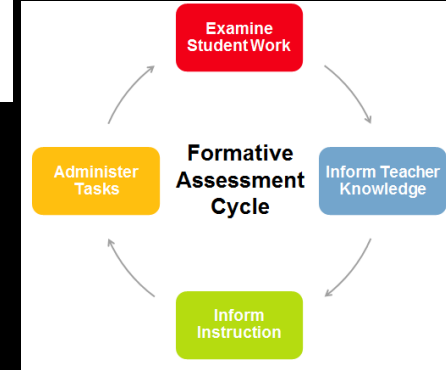
	A	B	C	
1	Student ID	Answer	Grade	
2		1 Neural networks ar	2	
3		2 It depends on the c	1	
4		3 There are three ma	2	

	A	B	C	D	
1	Student ID	Answer	Grade	AI	
2		1 Neural networks ar	2	0.5+1+0.5	
3		2 It depends on the c	1	0.5+1	
4		3 There are three ma	2	1+1+0.5	

- Got caught by Canvas!
- From canvas to excel
- I was curious... What has "2-minutes AI" to say?
 - =IF(CONTAINS("backpropagation"); add 0.5;else add 0)
 - This AI was actually **very good!**
- Can we **automate grading?** How?
- But should we? Why?



- There are actually many aspects to consider!
- Many people involved
- Many perspectives to approach the problem
- Here are a few!



Wait!

Should we, teachers, decide this alone?

- No!
- This is a place where many people from many disciplines and many origins should look at the problem together
- This is how all this started and why we are glad to see you today

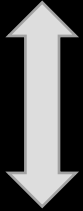
What do we want for you today?

Learn skills

AutogrAlde as a unique learning experience

- Grow a **disciplinary expertise**
 - What is AI for grading in your lenses?
- Grow an **interdisciplinary ability**
 - Work with people with different lenses!
 - You will meet peers from AI, informatics, law, pedagogy, philosophy
 - Very rare occasion!
- Grow **empowerment and participation mastery**
 - Experience the process of **improving study and work conditions** in a **safe and positive environment**
- Build a **solid opinion and get it heard!**
 - We are the first users of grading
 - We are the first ones to bring such an interdisciplinary discussion
 - **Today's discussions are gold for the community**
 - **And we will bring your voice up to the scientific and academic instances**

Express your voice and get it heard
AutogrAlde as a forum

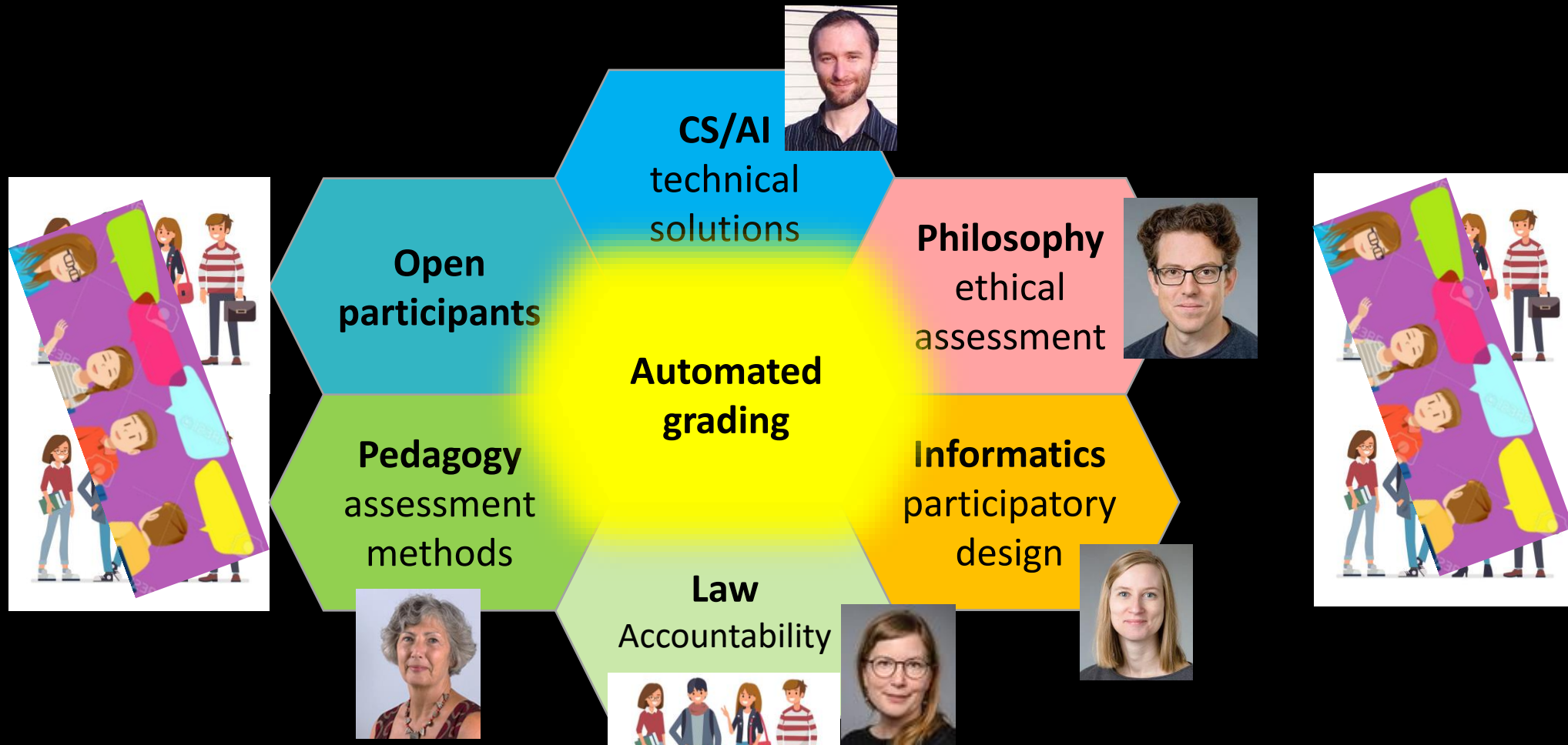


All clear?

Let's talk about organization

Auto-grade Hackathon: whether and how to automate grading?

1. **Morning:** **Disciplinary** expertise development
2. **Afternoon:** **Interdisciplinary** collaborative assessment
3. **Evening:** Assessment & prizes



Morning activity: disciplinary expertise

- Look at **AI**; grading; and **AI for grading** from the perspective of your discipline
- **Goal:**
 - **Final goal:** grow confidence about AI for grading
 - Concrete goal
 - Identify the core concepts of AI, grading and your discipline
 - **Build a mindmap relating these concepts**
- **Resources:**
 - Your own input about important links
 - Online documentation
 - Teachers
- **Structure:**
 - **Disciplinary groups**
 - Now-11:30:
 - Check for the documentation, build your map
 - We will try to pass by (as much as we can)
 - 11:30:
 - Closing, disciplinary teachers will check and feedback
 - 12:00 Lunch time!
- Be good to yourself: these mindmaps will be very important this afternoon!
- **Any questions?**



- https://drive.google.com/file/d/1aE4yXwQ_QjDe/4zuhASvGa2lpw/bXD5Pp/view
- https://app.mural.co/t/autograide0800/m/autograide0800/1642083972883/bFabf23d3bde59e224dcda0f229f3f25de90002?s_ender=u57c8c5e264226cbc53cc1190



LET'S GET
STARTED!

Afternoon activity: interdisciplinary assessment

- **Goal:**
 - **Identify** an important aspect of AI for grading
 - An application domain, a type of use of AI for grading, a property of AI for grading
 - E.g. "AI for grading oral exams"; "all-time continuous evaluation"
 - *A priori*, it should seem realistically useable in practice
 - **Assess** whether it is good or not along all involved disciplines
 - It is technically feasible? Is it legal? Is it moral? Is it pedagogically useful? How will it impact interactions and society?
 - **Write down the idea, write down the assessments, relate the assessment altogether**
- **Resources:**
 - Online documentation
 - Your own input
 - The mindmap for this morning
 - Teachers
- **Structure:**
 - **Inter-disciplinary groups**
 - **Now-16:00:**
 - Lunch!
 - Select your aspect of AI for grading, build your map, discuss
 - If you feel you are done, you can work on another question
 - **16:00-17:30**
 - Fika!
 - Presentation of the results
 - Pitch your ideas in 5 minutes, based on your mindmap
 - Expert vote, participant vote
 - We will look at the impact of the proposal and the depth of the assessment
 - **17:30-18:00**
 - Delivering the rewards for the best proposals!
 - Closing up and enjoying a trip home ☺



- <https://app.mural.co/t/autograide0800/m/autograide0800/1642083988169/e46db77822ba06e690c8ad88fab2abb2686c7569?sender=u57c8c5e264226cbc53cc1190>
- https://forms.office.com/Pages/ResponsePage.aspx?id=-aZLWjH1Mk-UZZmPGead5J1VvpVP_aNEjjZlAwl8cqRURVnKSE5UODJIM1UwU09FVUxRTUhHMLhMR14U

• **Any questions?**



LET'S GET
STARTED!