ChatGPT and AI-based Tools in Education

KauKan 2024 Seminar Series

**KARLSTAD
UNIVERSITY
SWEDEN**

Leonardo Martucci

The next 20 minutes

- AI in education

  - Computer Security I (DVGC19)*
    Semester 6
    64 enrolled
    7.5 hp
    LP5 2023

- AI for educators

  - ChatGPT & AI: Academic Integration[†]
    UPE Course
    62 enrolled
    30 hours
    4 runs (23/11 - 24/08)
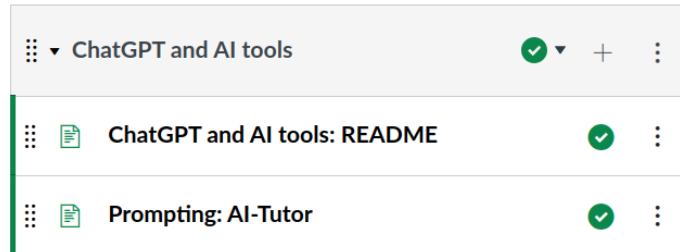
AI in Education

Computer Security 1

DVGC19

AI in Education

- Rules

- Report writing
  - Grammar checking
  - Review of report structure

- Learning assistant

  - A pre-crafted prompt [†]

  - Tailored to the course audience:
  ``*tutor who helps third-year computer science university students…´´*

  - Crafted to promote interaction
  ``*end your responses with a question´´*

  - To be copied, pasted, modified
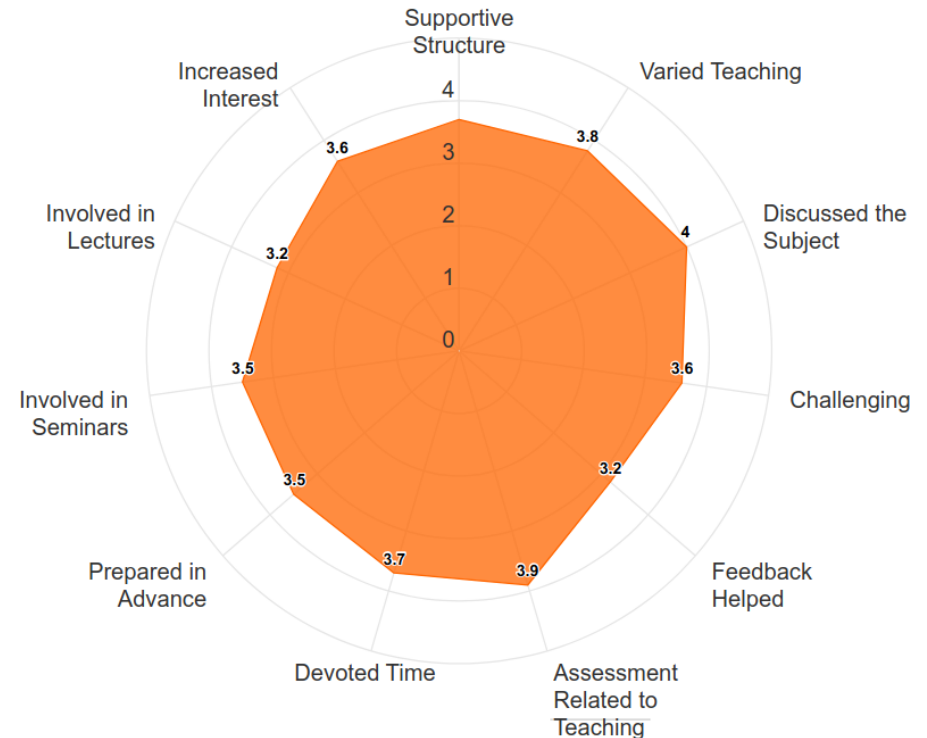
  + word of caution

DVGC19 Feedback

- ## From Students:

  - "ChatGPT as an extra teacher/tool was very useful… but it could also be misleading."

  - 80% approval at mid-course
  - 60% approval at end-course

- ## From Lab Supervisors:

  - Much improved lab reports.
  - Reduced return rate of reports.

The highest value is 4   n=27, response ratio 42%

AI for Educators

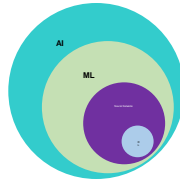ChatGPT & AI: Academic Integration

An UPE Course

AI for Educators

- AI Theory and Practice
- to: KAU teaching staff

- Teachers:

    Matthias Beckerle

    Leonardo

- AI Theory

    - Fundamentals
    - Limitations and Challenges

- AI Practical Parts

    - Prompting
    - AI Tools, GPTs

+ Videos, Podcasts, Discussions

ChatGPT & AI Feedback

- From the attendees:

  - "I really liked the pedagogy and the content. A real eye-opener"

  - "I hope this UPE course will be running on a regular basis in the future so all the other colleagues at KAU can benefit."

  - "I liked the structure with lectures and discussions mixed with practical homework"

  - "I enjoyed every minute of it"

- Our reflections:

  - AI evolution is *very* fast
  - No two courses were the same

  - Recycling course, maybe?

- ~66% complete the course

What can we do?

- AI-based tools exist:

  - They are very powerful
  - Using these tools need planning

  - KAU Guideline 2024/131
    for teachers
    for students

- What can you do?

  - Enroll to UPE's

  ChatGPT & AI: Academic Integration

Questions?

Leonardo Martucci

leonardo.martucci@kau.se