

Freezing Week 2024 Workshop:

AI in Guidance and Support of Students

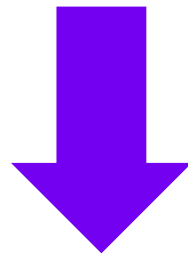
Salla Niittymäki

7 February 2024



Objective of the workshop:

Empowering and activating learning enablers

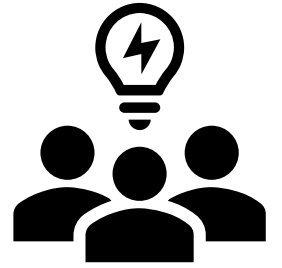


Empowering learners!

How do you feel about AI?



Join at menti.com | use code **1280 8550**



Group discussion 1: sharing experiences

- A. What kind of AI tools related to educational context have you **tested/used** or **heard** of?
- B. Where can you find information on these – **how to keep updated** what's going on and what's coming next?



Guiding and Supporting the Professional Growth of Students → Growth Towards Working as a Professional

- One of the missions of higher education, for example universities of applied sciences in Finland, is to prepare students with **skills and competences needed in the professional world and in professional expert tasks**, preferably with a future perspective, and **support the professional growth** of students.

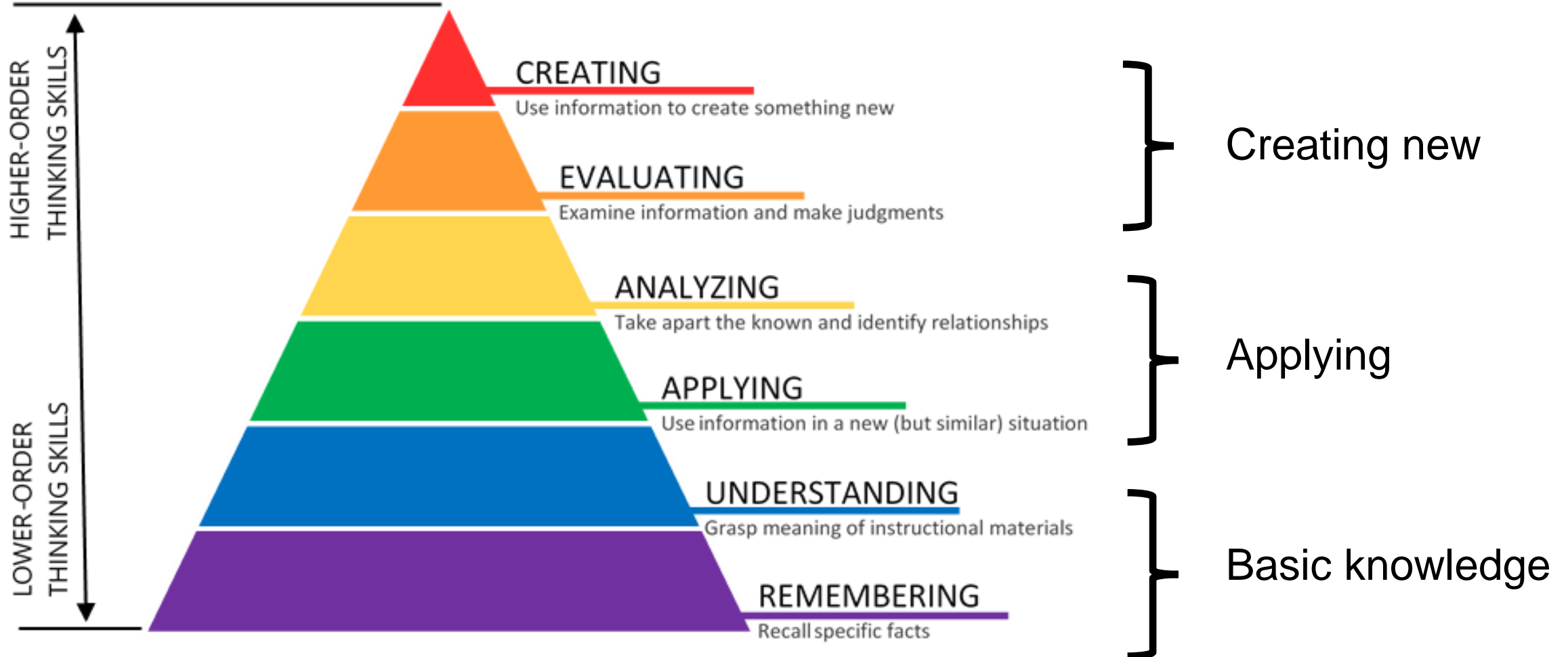
→ **Student in the center**

Supporting of students in various areas, for example in:

- **Learning and learning skills:** learning the topic, search of information, developing ideas and own thinking, applying knowledge, creating new knowledge...
- **Study planning:** what courses to take, what are the schedules, how to fit studies into other areas of life, self and time management...
- **Career planning:** what career options there are, what are the potential employers, what competences are needed in different jobs, what are the jobs to match my competences, how to describe my skills and personality, how to write a successful CV, how to find the hidden jobs...

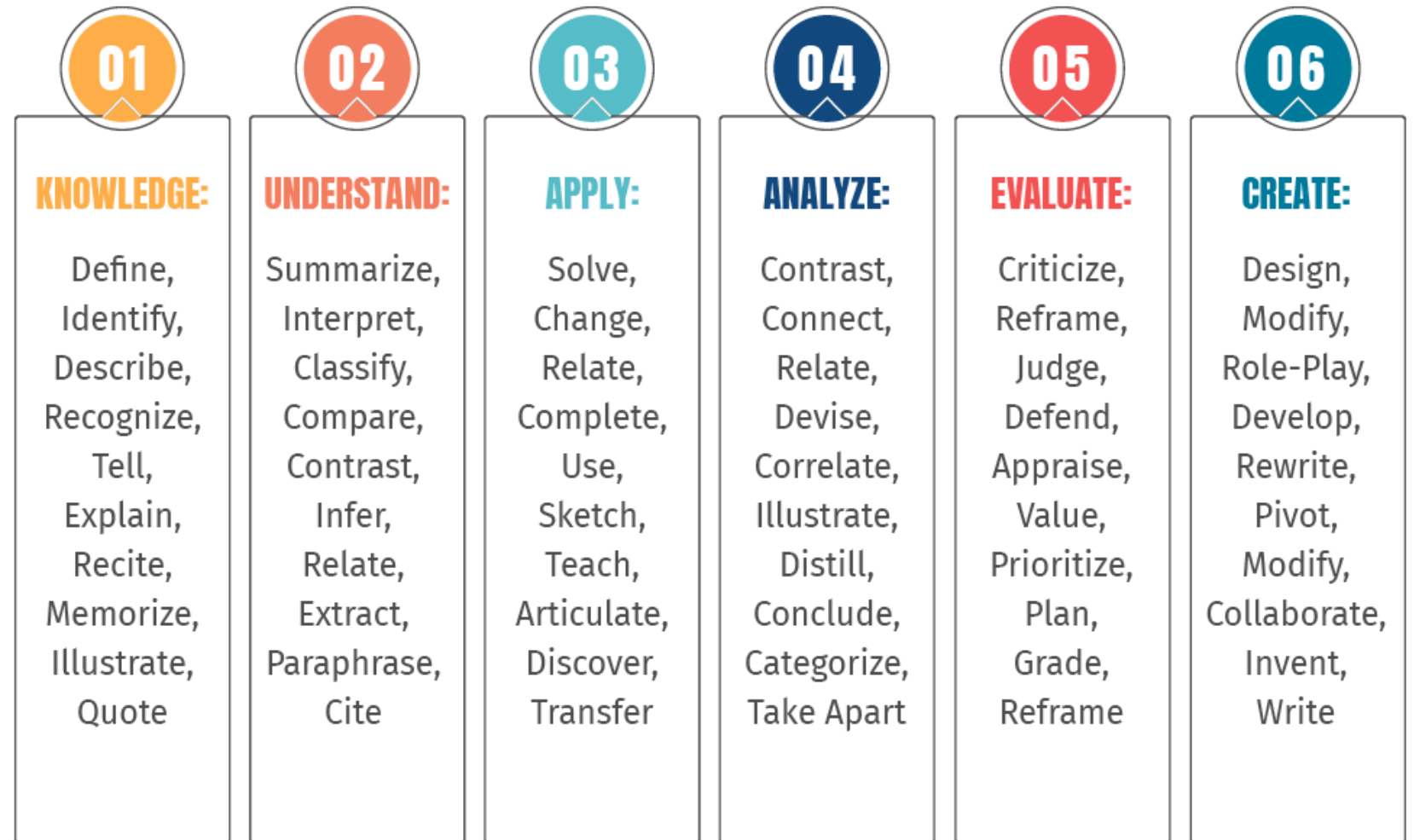
Learning and skills in the center

BLOOM'S TAXONOMY – COGNITIVE DOMAIN (2001)



Areas of learning where generative language models are noticed to be useful so far:

- Learning skills
- Simulating situations
- Planning and structuring
- Sketching
- Outlining entities
- Multilingual interaction



Source: Webinar by Kari A. Hintikka, ITK24,
<https://itk-konferenssi.fi/webinaarit/webinaaritallenteet>
**ITK = Finland's largest digital education and
learning event Interactive Technology in Education

AI support in career planning: Aidi

- Aidi – AI supported study and career planning application (South-Eastern Finland University of Applied Sciences, XAMK)
 - Proposes education and job possibilities based on skills and interest, supports self-assessment, several chatbots guiding in different areas...
 - Integrated into study register and student management systems, studyinfo.fi (national education information system where also application process takes place) and tyomarkkinatori.fi (national job market service)

Kuva 3. Aidin Opintopuu- ja Ammattinimekepilvi-osiot. Klikkaamalla tavoiteltua ammattia aukeaa tarkempi ammattikuvaus sekä mahdollisia työnantajia.



AI support in career planning: CareerBot

- CareerBot at <https://prod-3amk-ai.rahtiapp.fi/> (Haaga-Helia, Laurea and Metropolia Universities of Applied Sciences & HeadAI Ltd)
 - With CareerBot, user create their own skills profile by specifying skills and qualifications. With the skills profile, you can search for jobs matching your skills. By visualizing the skill profile as a semantic map, the user can mirror his skill level in relation to the skill needs of the desired job.
 - User can also easily search for study courses that match the skill needs of the job in the study programs of Haaga-Helia, Laurea and Metropolia. With CareerBot, you can also search for theses and topics for theses, as well as learn about the development of the popularity of different topics.
 - CareerBot is aimed especially at students who are looking for jobs, study courses to deepen or increase their skills, or information about theses.

AI applications recommended by senior lecturer colleagues

- <https://www.wondercraft.ai/> → create for example a podcast on given articles with your own voice
- <https://otter.ai/> (examples on education: <https://otter.ai/education>) → creates notes from audio and shared content
- <https://www.classpoint.io/> → engage students and add interaction directly to power point slides to be used for example in online classes

***Search for new GPTs – new coming every day:*

- <https://openai.com/blog/chatgpt-plugins> → GPTs = ChatGPT plugins in ChatGPT 4.0 (applications using ChatGPT created by users)

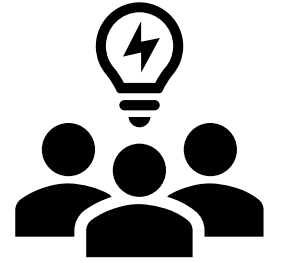
AI support in guiding thesis work

- [One example](#) by Mika Virolainen, Senior Lecturer in Information and Communication Technology at HAMK



Video on YouTube:





Group discussion 2: needs for AI tools

- A. What kind of AI tool would you like to have for yourself to support your own work? What are the tasks where you would like to have assistance or you would like to outsource?

- B. What kind of AI tool would you like to have for your students to support them in their learning, study and career planning? What are the areas they would benefit from assistance, support or guidance?



Expected outcome of the workshop:

Read, watch, talk, wonder, discuss, question, explore, test, try...

activate yourself!

Do it on your own, with your colleagues, with students, with people from work-life, with your friends and family...

together with your network!

Organisations progress slowly – when the development is rapid, it might be up to individuals to **follow the development and explore**

the opportunities!

Readings:

- Artificial intelligence to support study guidance: <https://urn.fi/URN:NBN:fi:amk-2020121528202>
- Artificial Intelligence for Career Guidance – Current Requirements and Prospects for the Future: <https://iafor.org/journal/iafor-journal-of-education/volume-9-issue-4/article-3/>
- Adopting AI-enhanced chat for personalising student services in higher education: <http://urn.fi/URN:NBN:fi-fe2021101451018>
- The impact of artificial intelligence amongst higher education students: <https://urn.fi/URN:NBN:fi:amk-2023060116981>
- Artificial Intelligence-Enabled Intelligent Assistant for Personalized and Adaptive Learning in Higher Education: <https://doi.org/10.48550/arXiv.2309.10892>

Thank you!

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