



Ethical issues of AI in learning in school contexts

Päivi Kousa, postdoctoral researcher & coordinator (AI in Learning)
Hannele Niemi, professor



AI IN LEARNING

- an ecosystem connecting companies, universities and schools

**BUSINESS
FINLAND**


UNIVERSITY OF HELSINKI
FACULTY OF EDUCATIONAL SCIENCES

 LAPIN YLIOPISTO
UNIVERSITY OF LAPLAND


Headai

SCHOOL DAY

 **NAPCON**

Upknowledge

blogs.helsinki.fi/ai-in-learning

The focus of this study is the deeper understanding of ethical challenges concerning AI in learning and education

The qualitative research is about companies who develop new AI based tools for schools and other learning environments:

- descriptive content analysis of semi-structured interviews (n=8)

The main research questions are about

- Challenges,
- Solutions and
- Need of support

The aim is to support equity and lifelong learning in different levels of education as well as in working environments





FINDINGS: MAIN CHALLENGES

Human and machine learning

- Inequal (national and global) possibilities to learn about AI and use digital tools and applications
- Safe and trustworthy AI based products and services

Regulations

- Difficult and ambiguous legislation (What *is* ethical AI ?)

Society

- Negative public opinion/unrealistic expectations
- Bad reputation of big companies

FINDINGS: MAIN SOLUTIONS



PREVENTIVE

- Careful product planning, risk analysis, ethical check lists etc.

SAFE, LEGAL and TRUSTWORTHY

UNDERSTANDABLE and ACCESSIBLE

EQUAL

- Customized training (human and machine)
- Possibilities to participate
- Suitable for all (diversity)



FINDINGS: NEED OF SUPPORT

More **support and collaboration** is needed with working life, schools, researchers, public sector, policymakers, and those who use the services and products

- *Global collaboration is essential in order to understand economical, juridical, cultural and educational differences*

Future challenges:

How AI related issues such as *privacy, accuracy, property rights, accessibility and other aspects of trustworthiness* could be solved in order to support equity and lifelong learning in different levels of education as well as in working environments?

THANK YOU!

paivi.kousa@helsinki.fi

hannele.niemi@helsinki.fi