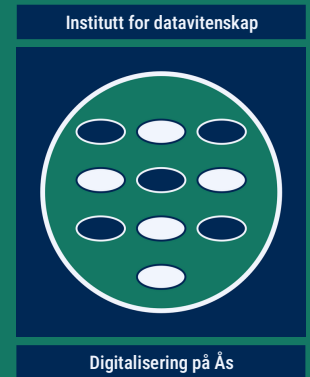


Norges miljø- og
biovitenskapelige
universitet



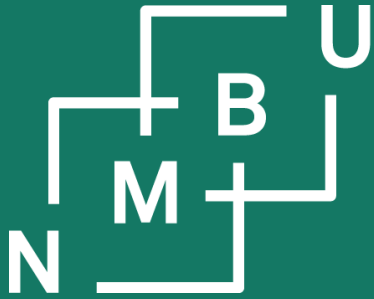
DAT390

Data science seminar

4 Research ethics and impact

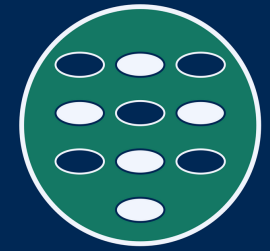
4.5 Own use of artificial intelligence methods and tools

Based on input from Meagan Gravelle and Martin Røer (skrivesenteret)



Noregs miljø- og
biovitenskaplege
universitet

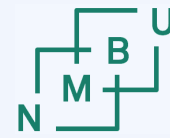
Institutt for datavitenskap



Digitalisering på Ås

4 Ethics and impact

4.5 Rules for use of AI methods



NMBU guidelines for use of AI

The “**Guidelines for Use of Artificial Intelligens (AI) at NMBU**” (retningslinjer for bruk av KI) are in force from 7th October 2024 within NMBU as a whole.

They apply to all students at all levels of study.

Unusually narrow definition of AI: “Artificial intelligence (AI) is understood as technologies that *mimic human intelligence to perform tasks* and can improve based on data.” (Only such technologies are regulated by the guidelines.)

The guidelines have a focus on generative AI and content produced by AI.

Main message: NMBU allows the use of AI-based tools in the preparation of assignments that are part of mandatory coursework or assessments, unless the course description explicitly states that AI-based programs are not permitted.

Students' obligations under the guidelines

While AI tools, by default, may be used, the following are obligatory:

- “**clearly indicate** how and where AI-based programs have been used”.
 - “If the student uses AI-based programs in a submitted assignment or in other work to be submitted for assessment or as a compulsory activity [...], the student must **account for the use**, e.g., **in the [...]** **methodology chapter**. How the use is described depends on whether AI is used as a writing aid or as a research method.”
- “The student is responsible for **ensuring that information** generated using AI-based programs **is reliable**.”
- “The student must **critically evaluate** the AI-generated results and ensure that they are based on research or other relevant literature.”

What if you don't comply with the rules

"Chapter 6. NMBU's Regulations on Suspicion of Cheating and Plagiarism

- 1) The student is obliged to familiarize themselves with NMBU's regulations regarding cheating and plagiarism.
- 2) NMBU's regulations state that exam papers and other work **must be the student's own independent work**.
- 3) **All use of AI** to generate text or academic content **must be stated**. **Failure to do so may be considered cheating** and may result in the cancellation of the exam and/or expulsion from the university.
- 4) «*Guidelines - handling of suspicion of cheating or other dishonest conduct at NMBU*» also apply to the use of AI, in particular the provisions in chapter 3 paragraph **3.1** and 3.2 (1) and (7)."

3.1 Cheating is any action that aims to give the student an unjustified academic result or an **unjustified advantage** in the evaluation of academic performance.

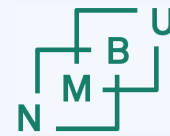
What if you don't comply with the rules

"Chapter 6. NMBU's Regulations on Suspicion of Cheating and Plagiarism

Attention: Even if you are allowed to use generative AI - if you use it to such an extent that what you submit is no longer your "own independent work", you will fail.

- 2) NMBU's regulations state that exam papers and other work **must be the student's own independent work**.
- 3) All use of AI to generate text or academic content must be stated. Failure to do so may be considered **cheating** and may result in the **cancellation of the exam** and/or **expulsion from the university**.

*3.1 Cheating is any action that aims to give the student an unjustified academic result or an **unjustified advantage** in the evaluation of academic performance.*



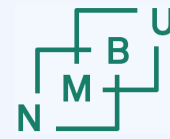
Proofreading (språkvask)

Proofreading falls under writing support. A brief *explanation of which program (chatbot or other AI-based tool) was used and what it was asked to do* with the text is sufficient. The student is responsible for the final content.

Spellchecking and grammar programs like Grammarly *do not fall under AI*. However, Grammarly GO and all other AI-based programs that allow you to generate (or re-generate) larger amounts of text must be accounted for.

In courses *where language skills are part of the assessment* criteria, *there may be restrictions on using AI for proofreading*. It is the student's responsibility to familiarize themselves with the course-specific guidelines for AI (if stated).

Any *such guidelines should be part of the course description*.



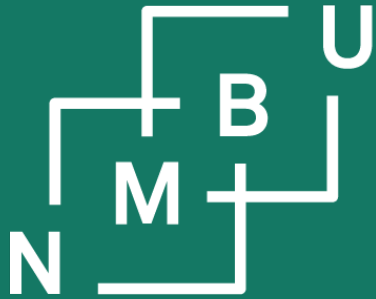
AI tools as part of the research method

If *AI is used to process data/sources* in relation to each other, design analytical frameworks, or develop procedures for an experiment/project, it falls under research methodology.

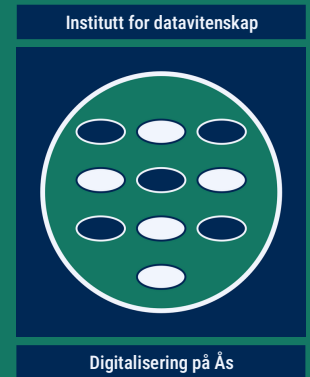
In this case, an *explanation of the purpose, programs used, and the interaction process between the user and the AI tool* that forms the basis of the method(s) is necessary. This should be done in the methodology section.

The course may provide further guidelines on what is required in the explanation, depending on the nature of the course.

In the DAT390 report and your master thesis, *you must describe your research methodology anyway*. The *guidelines for use of AI add little to this* because of the underlying *narrow definition of AI* (imitating human intelligence).



Norges miljø- og
biovitenskapelige
universitet



DAT390

Data science seminar

4 Research ethics and impact

4.5 Own use of artificial intelligence methods and tools

Based on input from Meagan Gravelle and Martin Røer (skrivesenteret)