



# NorjordAI

*an AI chat about*

## Norwegian Agriculture





Farmers are busy



They need to make decisions



Why didn't I plant vegetables near the river?..



And might face challenges



[Jon blir bonder](#)

The right solution can help farmers produce more food

# AI-based advisor

*in the form of a chat dialog*

can assist with information timely utilizing:

- recent research
- local nuances
- farmer's preferences
- environmentally friendly approaches
- technological advancements



[“Embracing Generative AI in Agriculture”](#)

# Key features

- provides relevant and professionally sound answers to questions
- can help you plan new activities in your operation
- can track progress, provide feedback, recommend next steps
- can give you a personalized overview of news in norwegian agriculture
- takes your values into account when making suggestions / answers
- can provide information about local stores/sales channels for your products



# Benefits

- easy to interact
- fast access to information
- personalised specific answers
- knowledge based decisions

that potentially lead to

- cost and resource optimization
- higher quality products
- increase of local food production
- better environment
- more food



# Agriculture in Norway

Grass-based livestock production is the backbone of Norwegian agriculture



Topography, geology, and biology form the foundation for plant production, while climate and geography determine the types of crops that can be grown in specific areas.

"Norway has a marginal production area for many important crops and is one of the few European countries that cannot grow sugar".

When discussing Norwegian agriculture, it is important to consider the country's northern location. Some parts of Norway are in the Arctic, which makes agriculture a challenging endeavour.

"Due to Norway's climate, grain yields per hectare are lower than in most other European countries. In many parts of the country, growing fodder crops, mainly grass, is the only viable option."

One of the advantages of the cool climate is that it helps limit the spread of plant diseases and pests. These climatic and geographical conditions shape Norwegian agriculture. Soil, latitude, and climate are all interconnected

[see more](#)



# Norway's agricultural landscape, [see more](#)

*is undergoing a remarkable transformation*

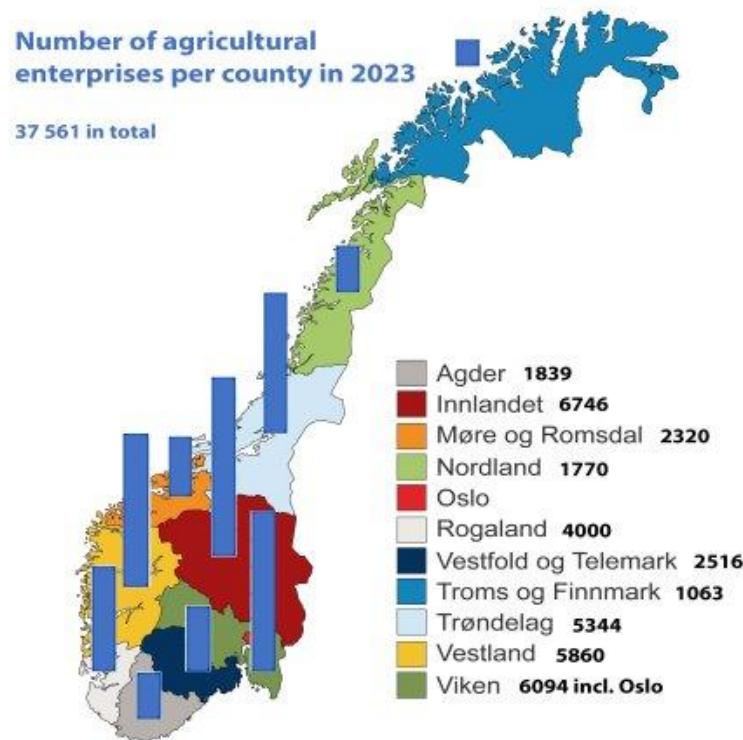
While milk consumption has halved over the past three decades, cheese and poultry have surged in popularity. Today, the average Norwegian consumes 19 kg of cheese and 20 kg of poultry annually - a staggering increase of 5 kg and 14 kg respectively since 1995.



# Virtual fencing, [see more](#)

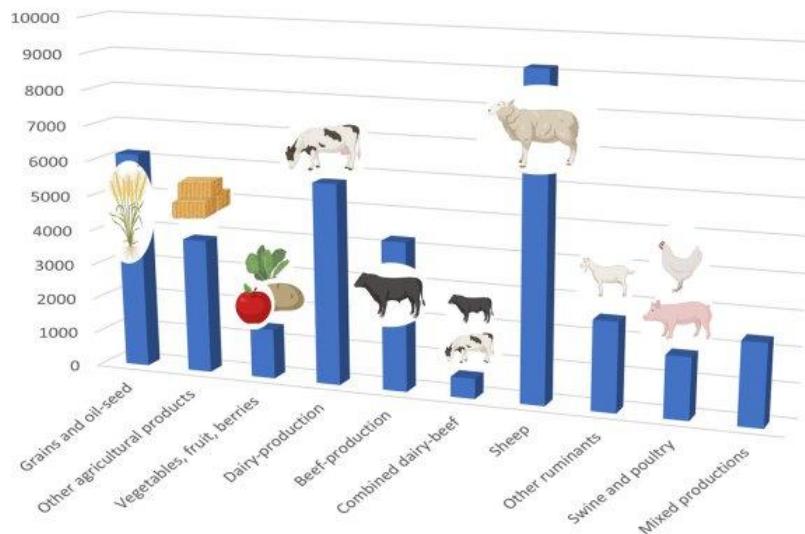
Farmers need to follow regulations, changing market requirements and opportunities of new technologies.

# Estimates



\* The image is from the article  
["How much do Norwegian farmers earn?"](#) of the NIBIO website

# Number of agricultural enterprises per production



## Fact

Consumption of meat has doubled in 40 years

\* The image is from the article  
["How much do Norwegian farmers earn?"](#) of the NIBIO website

# Previous work



Data in Brief

Volume 59, April 2025, 111326



Data Article

A dataset dedicated to the training of large- language models for agronomic management practices and production in Norwegian agriculture

Olena Bugaiova, Kristian Nikolai Jæger Hansen

- Collected [text data](#) and shared on Kaggle
- Described web scraping of the data by providing [notebooks with code](#)
- Published a research paper: [“A dataset dedicated to the training of large- language models for agronomic management practices and production in Norwegian agriculture”](#)
- Made [a proof of concept](#) by converting data into PDF files and adding it to notebookLM

## About Norwegian Agriculture

A text dataset in Norwegian dedicated to training Large-Language Models



[Data Card](#) [Code \(1\)](#) [Discussion \(0\)](#) [Suggestions \(0\)](#)

### About Dataset

#### Usability

9.38

#### License

MIT

#### Expected update frequency

Not specified

#### Tags

# About me

**Work Experience:** • Data Scientist at NIBIO during 6 month

- 1.5 years of experience in Data Science
- 7+ years of experience in Software Development

**Norwegian Language Practice:** Norwegian Center for Organic Agriculture (Norsøk)

**Education:** in Applied Mathematics and in Economics and Enterprise

**Projects:** • innmarksbeite image classification with GPT multimodal model; • biological age prediction; • recommender system for mental health

**Grants:** 500\$ Cohere Labs Research Grant, 400\$ AMD certificate



# Garden experience

Since childhood I helped my grandparents and parents in their garden in Ukraine





A photograph of a wooden barn interior. In the foreground, several goats are gathered around a metal feeding trough. A woman is visible on the right side, smiling and working with a milking machine. The barn has a rustic wooden ceiling with exposed beams and a green pipe running across it. The lighting is warm and natural, coming from the side.

Thank you!