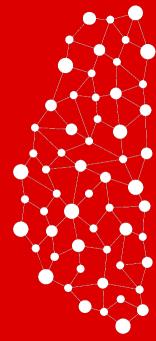
Integrating complex multimodal health data for clinical prediction with artificial intelligence



Esten H. Leonardsen
Post-doktor ved Psykologisk institutt,
Universitet i Oslo
Chief Scientific Officer, babayision





What is Al?

Artificial Intelligence (Al) is the field of computer science devoted to creating systems that can perform tucks that typically require human intelligence. These tasks include perception (e.g., receptizing images or speciful, researcing (e.g., solving proteims, making decisions), learning (e.g., adapting from data and experience), and interaction (e.g., understanding natural language, generating responses, collaborating with humans).

At a high level, Al can be divided into

- Symbolic AI (knowledge-based, rule-based, expert systems): Uses explicit rules, logic, and symbolic representations to encode reasoning.
- Machine Learning (data-driven): Learns patterns from data, with subfields like deep learning, reinforcement learning, and probabilistic modeling.

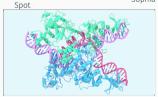
All is not a single method but a spectrum of approaches for replicating or augmenting cognitive functions in machines.

Would you like me to give you a concise working definition (one sentence) or a taxonomy of types of Al (narrow, general, superintelligence, etc.)?





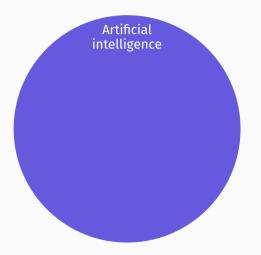
Sophia



AlphaFold

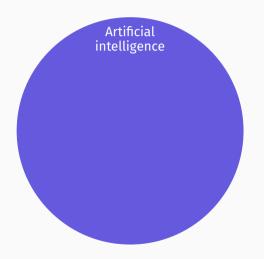
ChatGPT





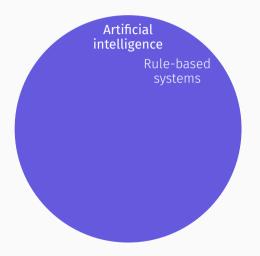
Artificial intelligence

Technology that solves tasks requiring some form of intelligence



Artificial intelligence

The field of study producing technology that solves tasks requiring some form of intelligence



Artificial intelligence

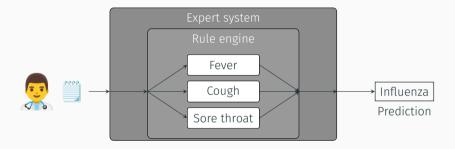
The field of study producing technology that solves tasks requiring some form of intelligence



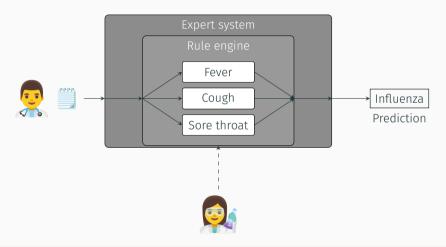




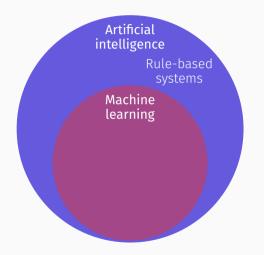






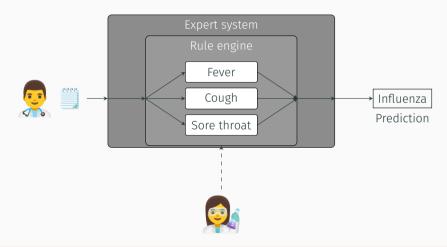






Artificial intelligence

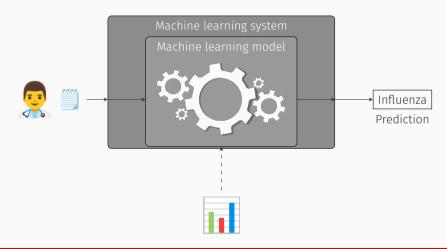
The field of study producing technology that solves tasks requiring some form of intelligence



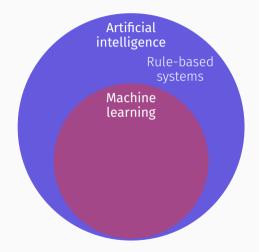












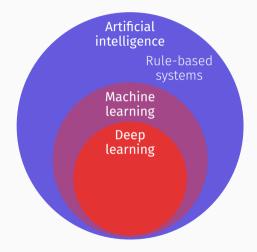
Artificial intelligence

The field of study producing technology that solves tasks requiring some form of intelligence

Machine learning

Technologies that learn to solve problems by finding patterns in training data





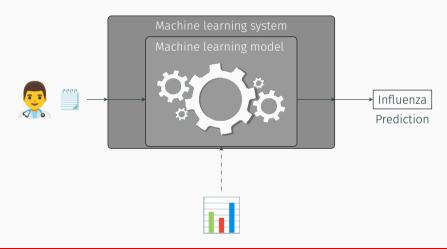
Artificial intelligence

The field of study producing technology that solves tasks requiring some form of intelligence

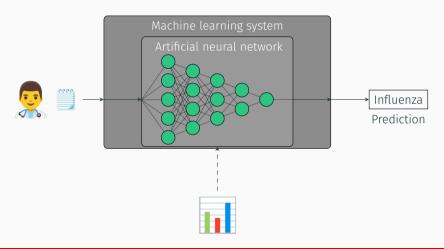
Machine learning

Technologies that learn to solve problems by finding patterns in training data

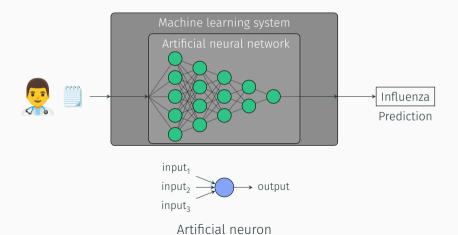




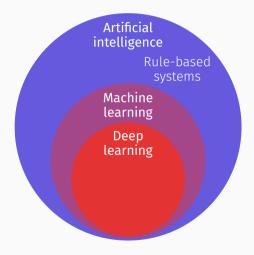












Artificial intelligence

The field of study producing technology that solves tasks requiring some form of intelligence

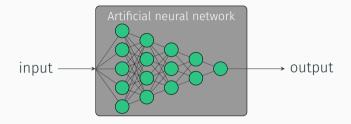
Machine learning

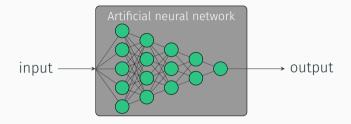
Technologies that learn to solve problems by finding patterns in training data

Deep learning

Technologies that rely on artificial neural networks to solve machine learning problems

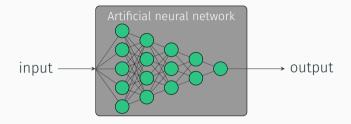


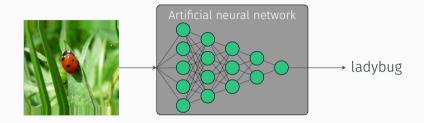












Takk for oppmerksomheten! estenhl@uio.no

