

# TDT4171 — Artificial Intelligence Methods

## Assignment 8 - Deep Learning

Erik Storås Sommer - 535006

March 2023

### Intro

In this assignment a feedforward and a recurrent neural network is implemented and trained using keras. I have testet several different architectures and hyperparameters, and the best performing model is presented in this report.

### Feedforward Neural Network

hyperparameters:

- optimizer: adam
- hidden layers: 3
- units hidden layer: 128
- loss: binary crossentropy
- epochs: 2
- activation: relu
- dropout: 0.2