

# Practical 4

## IT549 - Deep Learning

### ANN Model for classification

- Dataset
  - [MNIST dataset](#)
  - [Dog vs. cat dataset](#)
  - [Chinese Traffic Sign Database](#)
- Steps to perform -
  - Load and visualize the images from the dataset
  - Apply preprocessing and encoding to labels
  - Define the ANN model for image classification
  - Experiment with the different activation functions and loss functions while training the model
  - Analyze ANN model performance with different batch sizes and learning rates
  - You can use matplotlib plots to present your analysis for different hyperparameters
  - Evaluate the model's performance using different performance matrices discussed in the class