Pre-/Post-Test

- Training and evaluating model
- Convolutional Neural Networks
- Recurrent Neural Networks

Training and evaluating models

- 1. List possible approaches for improving model performance
- 2. In real application of Machine Learning task, which stage from the following list that often consume most of the time?
 - a. Data preprocessing
 - b. Model construction and training
 - c. Model evaluation
- 3. What does "underfitting" means? What are the main causes and how to solve this problem?
- 4. Likewise, What does "overfitting" means? What are the main causes and how to solve this problem?

Convolutional Neural Networks

 Name 4 Conv Nets architectures that also leads the breakthrough of Deep Learning models from 2012 – 2015 ImageNet ILSVRC challenge

2. Given an image as input of Conv Nets with size 7x7x3, what is the output shape of convolutional layer with 3x3 filter and stride = 1?

3. How many parameters in pooling layer?

Recurrent Neural Networks

1. Name 5 sequential learning tasks with Recurrent Networks and the example of its application

2. Name 2 variants of Recurrent Networks