

## Homework 6

Due Tuesday, 04/10, 8:00am

1. Study the example on

[https://tensorflow.rstudio.com/keras/articles/examples/cifar10\\_cnn.html](https://tensorflow.rstudio.com/keras/articles/examples/cifar10_cnn.html)

Try to make some changes to the model and the training process to improve the prediction accuracy. Provide the prediction evaluation of your own model.

2. Study the example on

[https://tensorflow.rstudio.com/keras/articles/examples/imdb\\_cnn\\_lstm.html](https://tensorflow.rstudio.com/keras/articles/examples/imdb_cnn_lstm.html)

Try to make some changes to the model and the training process to improve the prediction accuracy. Provide the prediction evaluation of your own model.

3. Study the tutorial on

[https://tensorflow.rstudio.com/tensorflow/articles/examples/mnist\\_fully\\_connected\\_feed.html](https://tensorflow.rstudio.com/tensorflow/articles/examples/mnist_fully_connected_feed.html)

Provide evidence that you have studied it.