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Deep learning tutorials (2nd ed.)

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Sungjoon committed on GitHub Update README.md

Latest commit 414b0a6 26 days ago

presentations	week6	26 days ago
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LICENSE	Initial commit	2 months ago
README.md	Update README.md	26 days ago

README.md

Deep learning tutorials

Deep learning tutorials (2nd ed.)

Week1

1. [Deep learning intro.](#)
2. [Python basics](#)
3. [Let's play with images & MNIST](#)
4. [Terminologies](#)

Week2 - Do you know deep learning?

1. [CNN and AlexNet](#)
2. [TensorFlow basics](#)
3. [Logistic regression](#)
4. [GoogLeNet](#)
5. [AlphaGo: MCTS+CNN](#)
6. [Let's implement MLP!](#)
7. [Let's play with you OWN DATASET](#)
8. [Regularization methods](#)
9. [Optimization methods](#)
10. [Restricted Boltzmann Machine](#)
11. [Let's implement denoising autoencoder](#)

Week3 - CNN basics

1. [Semantic segmentation: FCN, DeconvNet, DeepLab with atrous conv](#)
2. [Let's implement a simple CNN](#)
3. [Let's implement a basic CNN](#)
4. [Let's implement semantic segmentation](#)

5. [Weakly supervised localization: Global average pooling](#)
6. [Implement MLP and CNN on your OWN DATASET](#)
7. [Denoising deconvolutional neural network](#)

Week4 - CNN applications + RNN basics

1. [Image detection \(RCNN, SPPnet, FastRCNN, FasterRCNN\)](#)
2. [Other detections \(YOLO, AttentionNet\)](#)
3. [Let's use TensorBoards](#)
4. [RNN from Colah's blog](#)
5. [Visual QnA: DPPnet + MCBP!](#)
6. [Super resolution](#)
7. [Deep reinforcement learning](#)

Week5 - RNN applications

1. [RNN basic + handwriting generation](#)
2. [Let's implement RNNs](#)
3. [Let's implement Word2vec](#)
4. [Image captioning: Show and Tell + Show, attend and tell](#)
5. [char-rnn + how can we use Hangul?](#)

Week6 - Deep learning is so FUN!

1. [Residual network and some analysis](#)
2. [Neural Style: Texture synthesis+Inverting CNN](#)
3. [Let's implement neural style](#)
4. [Bayesian optimization](#)
5. [Adversarial attack?](#)
6. [Generative adversarial network](#)

