

Course Information

- TensorFlow로 시작하는 Deep Learning 입문 CAMP 13기
- 6/22~8/31 오전 10시~오후 1시, 10층 G강의장 (8/17 휴강)
- Deep Learning 이론 + 실습(Google Colab 이용)
- Github : <https://github.com/jwlee-ml/>

Schedule and Syllabus

Week	Topic
1	Introduction to Deep Learning
2	Neural Network Basic Part 1 <ul style="list-style-type: none">- Linear Regression- Logistic Regression- Multi-layer Perceptron
3	Neural Network Basic Part 2 <ul style="list-style-type: none">- Training Neural Networks
4	Convolutional Neural Network Part 1 <ul style="list-style-type: none">- Fundamentals of CNN- Case Study(ImageNet Challenge)
5	Convolutional Neural Network Part 2 <ul style="list-style-type: none">- Modern CNN- Visualization of CNN

Schedule and Syllabus

6	Recurrent Neural Network <ul style="list-style-type: none">- Fundamentals of RNN- LSTM- GRU
7	Natural Language Processing <ul style="list-style-type: none">- Word Embedding- Sentence Representation- Language Model- Machine Translation
8	Object Detection <ul style="list-style-type: none">- RCNN, Fast RCNN, Faster RCNN- YOLO, YOLO v2, SSD, RetinaNet
9	Image Segmentation <ul style="list-style-type: none">- FCN, DeconvNet, DeepLab- U-Net, Fusion Net, PSPNet
10	Neural Style AutoEncoder Generative Adversarial Network <ul style="list-style-type: none">- GAN Basic- Variants of GAN

참고할만한 곳

- 모두를 위한 딥러닝 시즌2

<https://www.youtube.com/watch?v=7eldOrjQVio&list=PLQ28Nx3M4Jrguyuwg4xe9dgt2XE639e5C>

- PR12 Season 1 :

<https://www.youtube.com/watch?v=auKdde7Anr8&list=PLWKfgbeHi3Tg5oUoyTe6rlm2osVQOH1br>

- PR12 Season 2 :

https://www.youtube.com/watch?v=FfBp6xJqZVA&list=PLWKfgbeHi3Tgstcln8K6dl_85_ppAxB8

기타 온라인 강의

- Edwith : <https://www.edwith.org/>
- Udacity : <https://www.udacity.com/course/intro-to-tensorflow-for-deep-learning--ud187>
- Coursera : <https://www.coursera.org/learn/introduction-tensorflow>
- 외국 강의 모음 : <https://github.com/kmario23/deep-learning-drizzle>

온라인 communitiy

- 강의 Community : <https://www.facebook.com/groups/datacampdeeplearning2/>
- TensorFlow Korea Community : <https://www.facebook.com/groups/TensorFlowKR/>
- AI Korea : <https://www.facebook.com/groups/AIKoreaOpen/>
- PyTorch Korea : <https://www.facebook.com/groups/PyTorchKR/>