KAIST Include 동아리스터디 AlphaGo와 AlphaGo Zero를 만들며 익히는 딥러닝 및 강화학습

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과게 안내

- 딥러닝라이브러리사용하기
 - TensorFlow 2
 - PyTorch

딥러닝라이브러리 시작하기

- TensorFlow 2: https://www.tensorflow.org
 - 설치 방법
 - CPU 버전:pip install tensorflow
 - GPU 버전:pip install tensorflow-gpu
 - 튜토리얼: https://www.tensorflow.org/tutorials
 - MNIST: https://www.tensorflow.org/tutorials/quickstart/beginner
 - 이미지 분류: https://www.tensorflow.org/tutorials/keras/classification
 - 텍스트 분류: https://www.tensorflow.org/tutorials/keras/text_classification
 - 회귀: https://www.tensorflow.org/tutorials/keras/regression
 - 과소적합과 과적합: https://www.tensorflow.org/tutorials/keras/overfit_and_underfit
 - 저장하기 및 불러오기 : https://www.tensorflow.org/tutorials/keras/save_and_load

딥러닝라이브러리 시작하기

- PyTorch: https://pytorch.org
 - 설치 방법 (Windows 기준)
 - CPU 버전:pip3 install torch==1.8.1+cpu torchvision==0.9.1+cpu torchaudio===0.8.1 -f https://download.pytorch.org/whl/torch_stable.html
 - GPU 버전:pip3 install torch==1.8.1+cu111 torchvision==0.9.1+cu111 torchaudio===0.8.1 -f https://download.pytorch.org/whl/torch_stable.html
 - 튜토리얼: https://pytorch.org/tutorials/
 - PyTorch Basic: https://pytorch.org/tutorials/beginner/basics/intro.html
 - DCGAN: https://pytorch.org/tutorials/beginner/dcgan_faces_tutorial.html
 - NLP with RNN: https://pytorch.org/tutorials/intermediate/char_rnn_classification_tutorial.html
 - DQN: https://pytorch.org/tutorials/intermediate/reinforcement_q_learning.html

딥러닝라이브러리 시작하기

• 예제 파일

- TensorFlow 2
 - MNIST:mnist_mlp_tensorflow2.py
 - Go with MCTS: mcts_go_mlp_tensorflow2.py
- PyTorch
 - MNIST:mnist_mlp_pytorch.py
 - Go with MCTS: mcts_go_mlp_pytorch.py (직접 만들어 보세요!)

감사합니다! 스터디 듣느라 고생 많았습니다.