

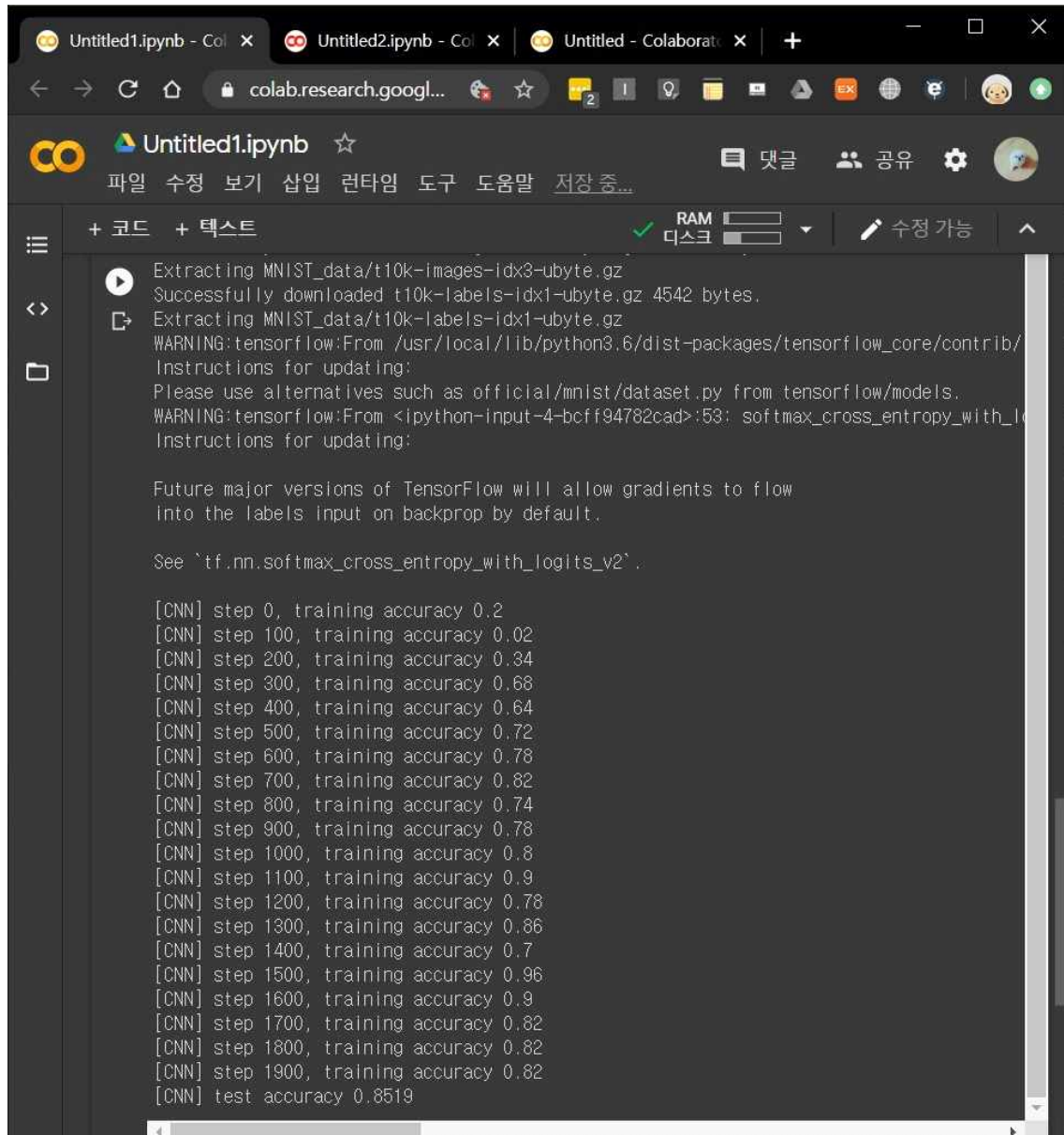
인공지능영상처리

HW #5

2019451170 / 조민근

수업시간에 배웠던 CNN에 대한 코드를 돌려보시면 됩니다.

1. 아래 코드를 돌려보시고 코드 및 결과 화면을 올려 주시면 됩니다.



```
Extracting MNIST_data/t10k-images-idx3-ubyte.gz
Successfully downloaded t10k-labels-idx1-ubyte.gz 4542 bytes.
Extracting MNIST_data/t10k-labels-idx1-ubyte.gz
WARNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/tensorflow_core/contrib/
Instructions for updating:
Please use alternatives such as official/mnist/dataset.py from tensorflow/models.
WARNING:tensorflow:From <ipython-input-4-bcff94782cad>:53: softmax_cross_entropy_with_logits
Instructions for updating:
Future major versions of TensorFlow will allow gradients to flow
into the labels input on backprop by default.

See `tf.nn.softmax_cross_entropy_with_logits_v2`.

[CNN] step 0, training accuracy 0.2
[CNN] step 100, training accuracy 0.02
[CNN] step 200, training accuracy 0.34
[CNN] step 300, training accuracy 0.68
[CNN] step 400, training accuracy 0.64
[CNN] step 500, training accuracy 0.72
[CNN] step 600, training accuracy 0.78
[CNN] step 700, training accuracy 0.82
[CNN] step 800, training accuracy 0.74
[CNN] step 900, training accuracy 0.78
[CNN] step 1000, training accuracy 0.8
[CNN] step 1100, training accuracy 0.9
[CNN] step 1200, training accuracy 0.78
[CNN] step 1300, training accuracy 0.86
[CNN] step 1400, training accuracy 0.7
[CNN] step 1500, training accuracy 0.96
[CNN] step 1600, training accuracy 0.9
[CNN] step 1700, training accuracy 0.82
[CNN] step 1800, training accuracy 0.82
[CNN] step 1900, training accuracy 0.82
[CNN] test accuracy 0.8519
```

2. 강의자료 117페이지와 같이 네트워크가 어떤 형태로 구성되어 있는지 그림으로 표현하여 제출하시면 됩니다.

