2025/12/17 13:50 1/4 A

ΑI

* BERT * ELMo

*

/ ()

Coursera by Andrew Ng

Neural Networks

Machine Learning



Terms

1. [Artificial Intelligence(), Al]:

• Narrow AI (AI) :

Αl

• General AI (AI):

ΑI

2. [Machine Learning, ML,]:

• ' (explicit programming)'

ΑI

•

•

,

• (explicit programming) :

```
DNN
                                                   가
3.
         [ Deep Learning, Deep Structured Learning,
                                                            ]:
                                                        (Neural Network)
                                                           (Layer)
                                                                             가
       가
              , Deep
                                가
         (Unit)
                   (Dendrites,
         0
                      (Myelin Sheath,
                 (Cell Nucleus,
                    (Axon,
                               )
                  가 (Axon terminals,
4. ANN [ Artificial Neural Network(
                                                      ),
                                                                   ]
5. DNN [ Deep Neural Network ]
                          가
   ANN
6. CNN [ Convolution Neural Network(
                                                       ),
                                                                        ]]
7. RNN [ Recurrent Neural Network(
                                                                  ]
                                              Weight
8. Classification (
   • supervised learning(
9. Bias ( ,

    Intercept,

10. Clustering (
   • unsupervised learning(
11. Matrix (

    Matrix multiplication
```

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2025/12/17 13:50 3/4 AI

```
12. Feature ( , )
```

- 13. Regression (,)
- 14. Category (,)
- 15. Entropy vs Cross Entropy (,)

> : (http://www.aitimes.kr)

16. Backpropagation (,)

•

17. Logistic regression \rightarrow Binary Classification \rightarrow 0 or 1

Linear regression 0 or 1 가

18. 19.

Y : real data,

Y hat:

20. Hyperplane

```
Hyperplane n n-1 ...

(1 ) (0 ) ...
(2 ) (1 ) ...

3 (2 ) ...

==> Classification
```

21. Ensemble

• [Ensemble Learning Method] (learning algorithm)

.

22.GAN

```
( Generative Adversarial Network )
         GAN
      ( deepfake ):
         (deep learning) 가 (fake)
1.
2.
3. GAN(
                                                                        (CG)
                         )
 Ref
1. " ?
                    ?" AI
                                                1
                                                                   1
2. iperov/DeepFaceLab
3. Easy Deepfake Tutorial: DeepFaceLab 2.0 Quick96
```

Ref

```
What are the benefits of white-box models in machine learning?
: Al --
, Al
,

7∤?
[ ]ANN, DNN, CNN, RNN
 (Deep Learning) □
```

Image



, , ai, 2013

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