

# AI

\* BERT  
\* ELMo  
\*

/ ( )

Coursera by Andrew Ng  
/

Neural Networks

Machine Learning



## Terms

1. [ Artificial Intelligence( ), AI ] :

- Narrow AI ( AI) : AI
- General AI ( AI) : AI

2. [ Machine Learning, ML, ] :

- (explicit programming) , AI
- , ,
- ,
- (explicit programming) : ,

- \_\_\_\_\_ : DNN
  - \_\_\_\_\_ :
3. [ Deep Learning, Deep Structured Learning, \_\_\_\_\_ ] :
- \_\_\_\_\_ (Neural Network)
  - \_\_\_\_\_ (Layer) \_\_\_\_\_ 가
  - 가 \_\_\_\_\_, Deep \_\_\_\_\_ 가 \_\_\_\_\_.
  - (Unit)
    - \_\_\_\_\_ (Dendrites, \_\_\_\_\_)
    - \_\_\_\_\_ (Myelin Sheath, \_\_\_\_\_)
    - \_\_\_\_\_ (Cell Nucleus, \_\_\_\_\_)
    - \_\_\_\_\_ (Axon, \_\_\_\_\_)
    - 가 \_\_\_\_\_ (Axon terminals, \_\_\_\_\_)
4. ANN [ Artificial Neural Network( \_\_\_\_\_ ), \_\_\_\_\_ ]
- \_\_\_\_\_
5. DNN [ Deep Neural Network ]
- ANN \_\_\_\_\_ 가 \_\_\_\_\_, \_\_\_\_\_
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

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

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

- ## 16. Backpropagation ( , )

17. Logistic regression → Binary Classification → 0 or 1

## Linear regression 0 or 1

가

18.

19.

Y : real data,  
Y hat :

## 20. Hyperplane

Hyperplane n n-1

$$\begin{pmatrix} 1 & \dots \end{pmatrix}$$

$$\begin{pmatrix} 0 & & \\ & 1 & \\ & 2 & \end{pmatrix}$$

==> Classification

## 21. Ensemble

- [Ensemble Learning Method] (learning algorithm)
  - 가 ,
  -

## Ref

What are the benefits of white-box models in machine learning?

: AI --

, AI

,

가?

[ ]ANN, DNN, CNN, RNN  
(Deep Learning)😊



## Image



, , ai, 2013

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