

# AI

/ ( )

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 ,
- \_\_\_\_\_ : , ( 가 , )

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( ), ]

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5. DNN [ Deep Neural Network ]

- ANN 가 ,

6. CNN [ Convolution Neural Network( ), ]]

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- 
- 
- 

7. RNN [ Recurrent Neural Network( , ) ]

- Weight , ,

8. Classification ( , )

- supervised learning( , )

9. Bias ( , )

- Intercept,

10. Clustering ( , )

- unsupervised learning( , )

11. Matrix ( , )

12. Feature ( , )

13. Regression ( , )

14. Category ( , )

15. Entropy vs Cross Entropy ( , )



가 . 가 , 가  
 가 . , .

> : (<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 .  
 $\begin{pmatrix} 1 & \dots \\ 2 & \end{pmatrix}$   $\begin{pmatrix} 0 & \end{pmatrix}$  .  
 3  $\begin{pmatrix} 1 & \end{pmatrix}$  .  
 $\begin{pmatrix} 2 & \end{pmatrix}$  .

==> Classification

## 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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