

# AI

- \* [BERT](#)
- \* [ELMo](#)
- \*

/ ( )

[Coursera](#) [by Andrew Ng](#)  
/  
[Neural Networks](#)

Machine Learning



## Terms

1. [ Artificial Intelligence( ), AI ] :
- Narrow AI ( AI) :

• General AI ( 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( ), ]

- 

### 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,

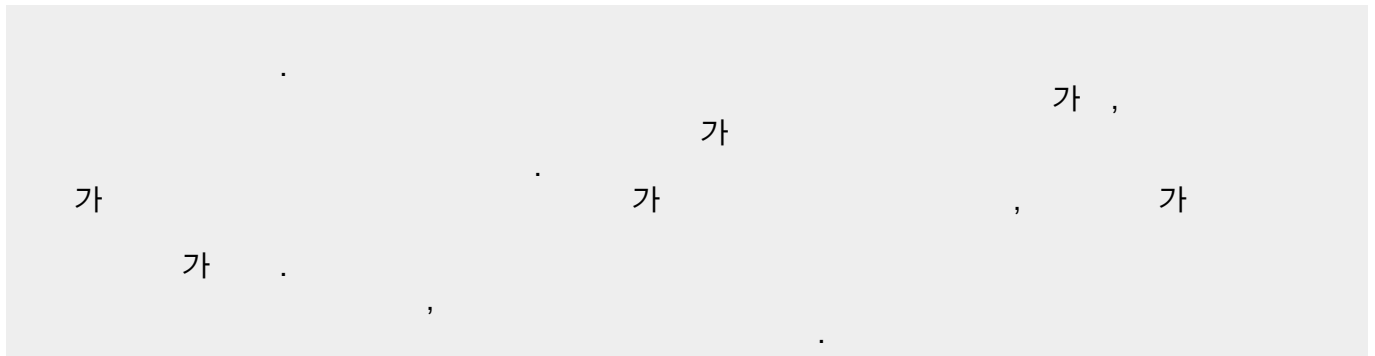
### 10. Clustering ( , )

- 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 .  
 (1 ... )  
 (2 )  
 3 (0 )  
 (1 )  
 (2 )  
 ==> Classification

21. Ensemble

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

22. GAN

- ( Generative Adversarial Network )
- ,
- :
- : GAN

## 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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