

# 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 ,
- \_\_\_\_\_ : ,

. , , ( 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 ( , )

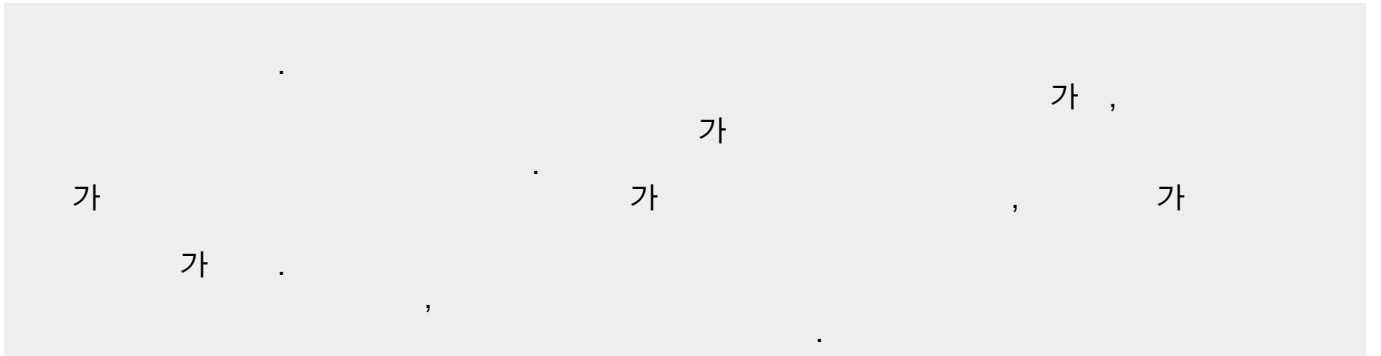
- [Matrix multiplication](#)

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 ) (0 ) .

(2 ) (1 ) .

3 (2 ) .

==> Classification

## Ref

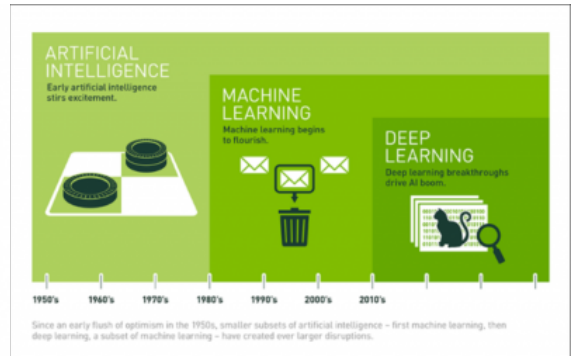
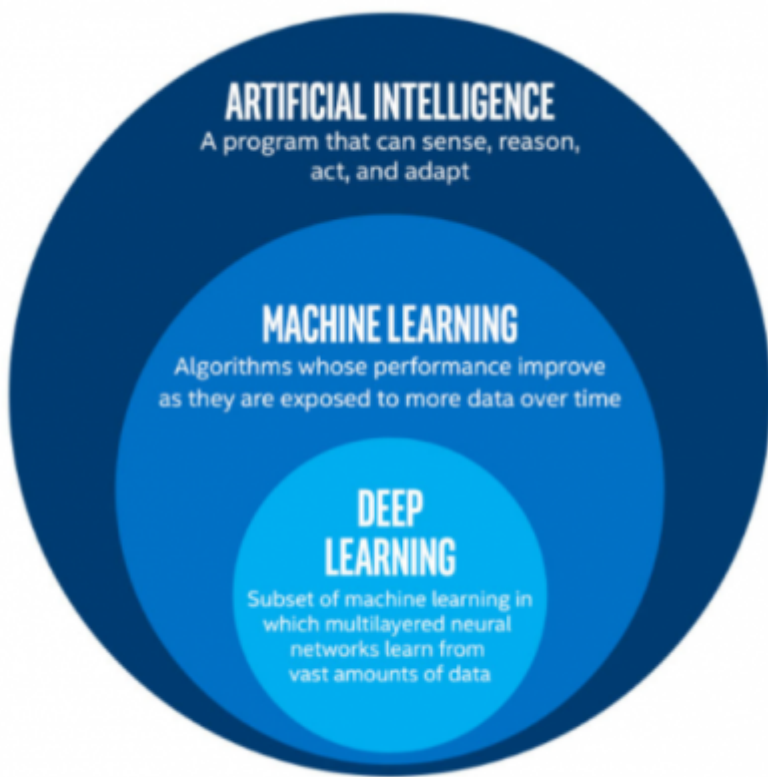
What are the benefits of white-box models in machine learning?

: AI --  
, AI

가?  
[ ANN, DNN, CNN, RNN  
(Deep Learning) 😊



# Image



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, , ai, 2013

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