

# 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,

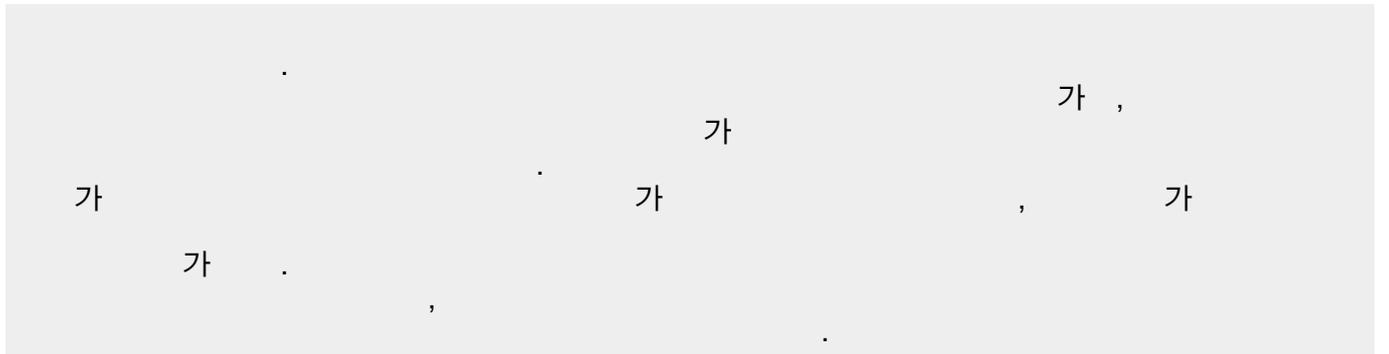
10. Clustering ( , )

- 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

21. Ensemble

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

22. GAN

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

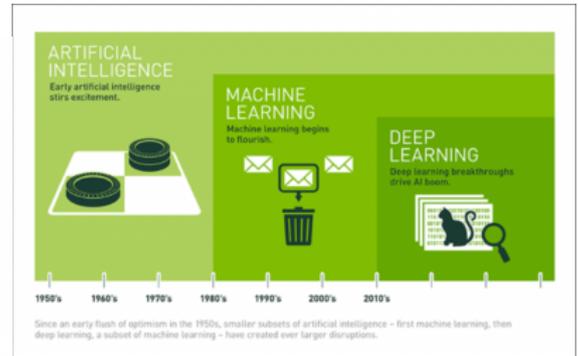
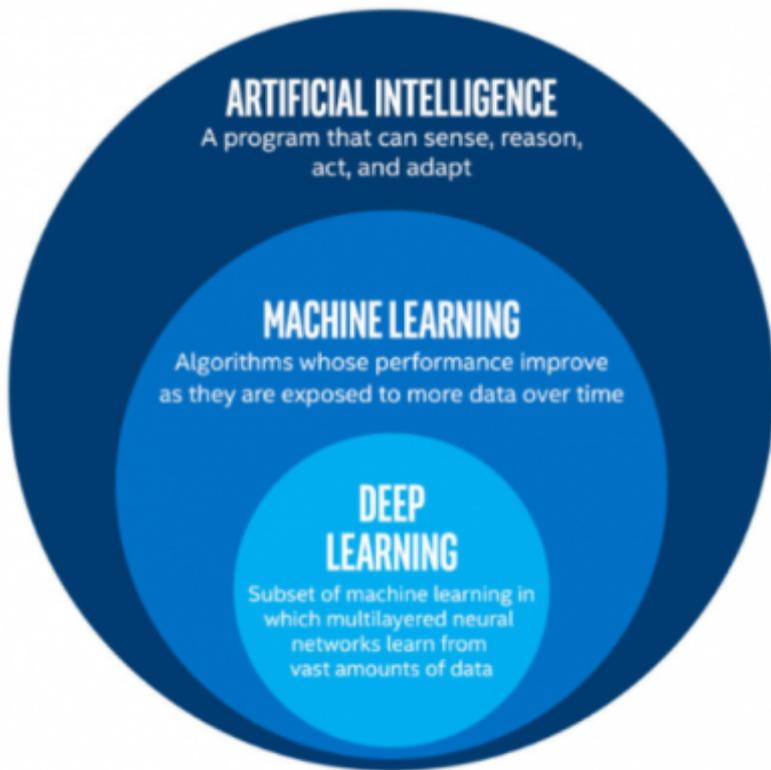
## Ref

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

: AI -- , AI

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

## Image



인공지능 & 머신러닝 & 딥러닝

, , ai, 2013

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