

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(),]

-

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 (,)

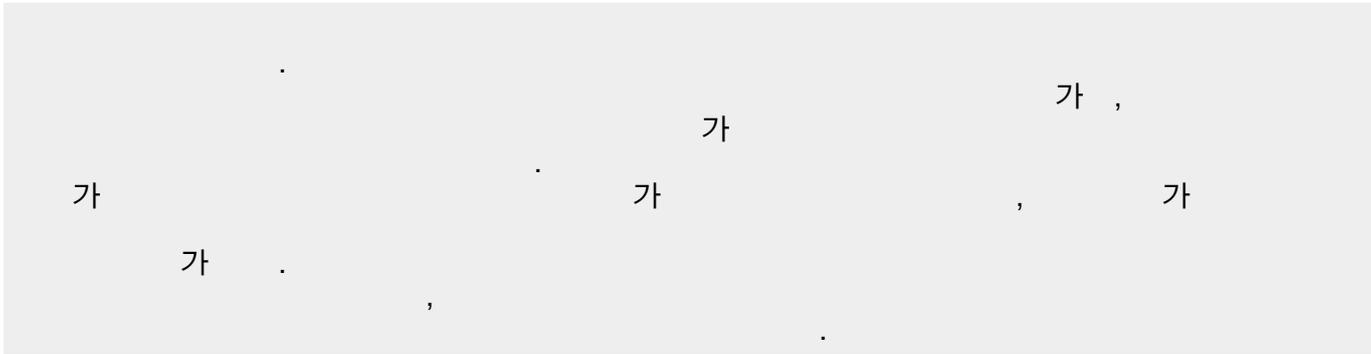
- [Matrix multiplication](#)

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

Ref

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

, AI : AI --

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



, , ai, 2013

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