

AI

* BERT

/ ()

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 (,)

- [Matrix multiplication](#)

12. Feature (,)

13. Regression (,)

14. Category (,)

15. Entropy vs Cross Entropy (,)

가 ,

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,

 $\hat{Y} :$

20. Hyperplane

Hyperplane	n	$n-1$	.
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$$\begin{array}{ccc} & \dots & \\ & (1 \quad) & (0 \quad) \\ & (2 \quad) & (1 \quad) \\ 3 & & (2 \quad) \end{array} \quad .$$

==> Classification

Ref

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

$$Al^{3+} + 3e^- \rightarrow Al$$

,

가?

[] ANN, DNN, CNN, RNN
(Deep Learning) 😎



Image



, , ai, 2013

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