

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 (,)

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,
Y hat :

- 20. Hyperplane

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

- 21. Ensemble

- [Ensemble Learning Method] (learning algorithm)
- 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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