

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,

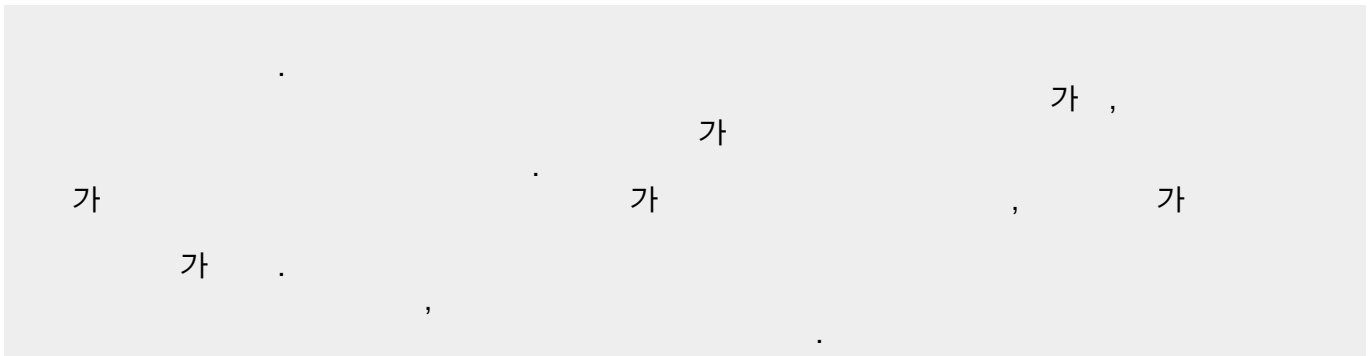
10. Clustering (,)

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

- 21. Ensemble

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

- 22. GAN

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

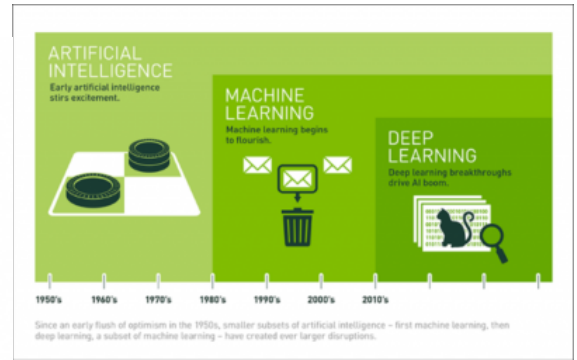
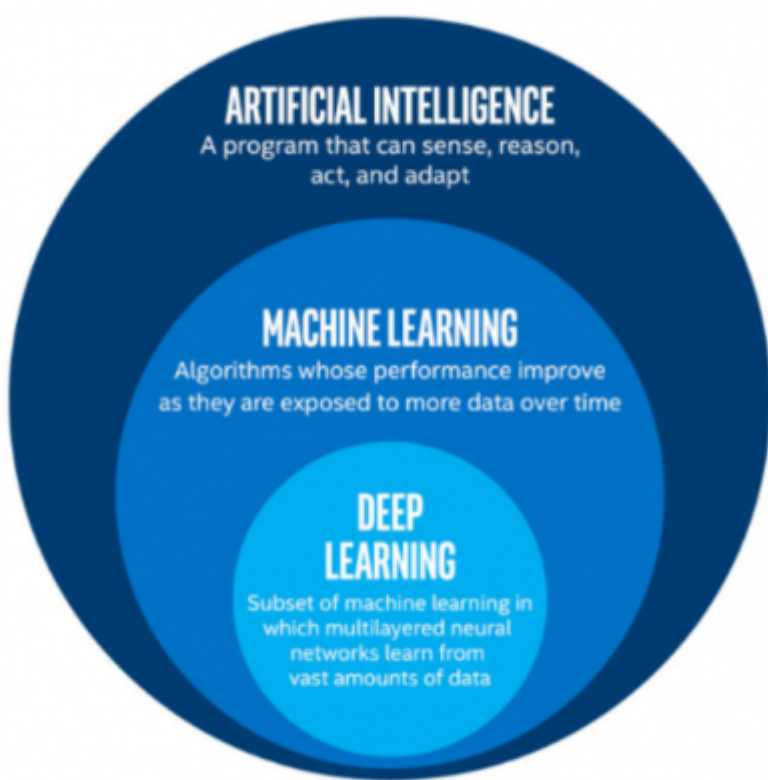
Ref

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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