2025/10/26 17:40 1/4

ΑI

* BERT

/ ()

Coursera by Andrew Ng

Neural Networks

Machine Learning



Terms

1.	[Artificial Intelligence(), Al] :		
	Narrow AI (General AI (AI): AI):		AI AI	
2.	[Machine Learning, ML,]:				
	• 1	(explicit programming)'	,		ΑI
	•	,	,		
	•			,	
	•	(explicit programming) :		,	
	•	: DNN			

```
가
3.
         [ Deep Learning, Deep Structured Learning,
                                                             ]:
                                                         (Neural Network)
                                                                               가
                                                             (Layer)
       가 , Deep
                                가
          (Unit)
                    (Dendrites,
                       (Myelin Sheath,
                  (Cell Nucleus,
                    (Axon,
                              )
                  가 (Axon terminals,
                                                     )
4. ANN [ Artificial Neural Network(
                                                       ),
                                                                     ]
5. DNN [ Deep Neural Network ]
                           가
    ANN
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 (
```

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2025/10/26 17:40 3/4 Al

```
14. Category ( , )
15. Entropy vs Cross Entropy ( , )
```

```
> : (http://www.aitimes.kr)
16. Backpropagation ( , )
```

17. Logistic regression \rightarrow Binary Classification \rightarrow 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
```

Ref

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

```
: AI --
, AI
,

기수?
[ ]ANN, DNN, CNN, RNN
 (Deep Learning)
```



Image



, , ai, 2013

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