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ΑI

* BERT * ELMo

*

/ ()

Coursera by Andrew Ng

Neural Networks

Machine Learning



Terms

1. [Artificial Intelligence(), Al]:

• Narrow AI (AI):

Αl

• General AI (AI):

Al

2. [Machine Learning, ML,]:

• ' (explicit programming)'

Al

•

•

• ,

(explicit programming) :

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• _	: L	DNN					
• -	: . ,	,	, (가	7)	
3. [Deep	Learning, Deep Structu	ired Lea	arning,]	:		
•				(Neura	al Netwo	ork)	
•			•		ayer)		가
가 , l • (Unit)	Deep 가	•		(,,		·
0	(Dendrites,)		,			
0	(Myelin Sheath, (Cell Nucleus,))			
0	(Axon,) 가 (Axon terminals,)				
4. ANN [Artificial	Neural Network(),]		
•							
5. DNN [Deep Ne	eural Network]						
• ANN	가	,					
6. CNN [Convolu	tion Neural Network(),]]	
•							
•							
7. RNN [Recurrei	nt Neural Network(,]		
•			Weight		-		,
			•				
8. Classification (
supervised	learning(,)				
9. Bias (,)						
• Intercept,							
10. Clustering (,)						
• unsupervise	ed learning(,)			
11. Matrix (,)						
 Matrix mult 	iplication						

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)

```
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 \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
```

21. Ensemble

• [Ensemble Learning Method] (learning algorithm)

• 가 ,

.

22.GAN

```
( Generative Adversarial Network )
         GAN
     ( deepfake ):
         (deep learning) 가 (fake)
1.
2.
                                                                        (CG)
3. GAN(
                         )
 Ref
1. " ?
                    ?" AI
                                                1
                                                                   ]
2. iperov/DeepFaceLab
3. Easy Deepfake Tutorial: DeepFaceLab 2.0 Quick96
```

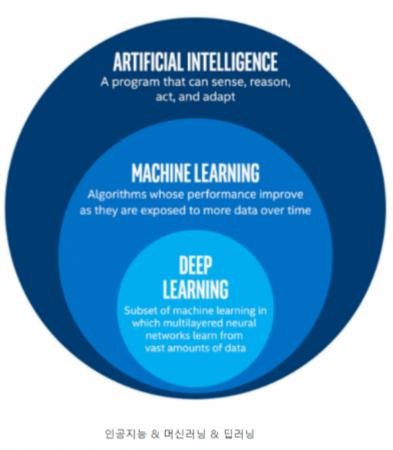
Ref

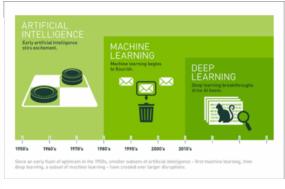
```
What are the benefits of white-box models in machine learning?
: AI --
, AI
,

7∤?
[ ]ANN, DNN, CNN, RNN
 (Deep Learning) (Deep Learning)
```

Image

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, , ai, 2013

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