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   ,

.

- _____ :   ,
                        .   ,   ,   (,   )

3.   [Deep Learning, Deep Structured Learning,   ] :

- (Neural Network)
                                        .
- (Layer)
            , Deep   .
- (Unit)
    - (Dendrites,   )
    - (Myelin Sheath,   )
    - (Cell Nucleus,   )
    - (Axon,   )
    - (Axon terminals,   )

4. ANN [Artificial Neural Network(   ),   ]

-

5. DNN [Deep Neural Network]

- ANN   ,

6. CNN [Convolution Neural Network(   ),   ]]

-
-
-
-

7. RNN [Recurrent Neural Network(,   ]

- Weight   ,   ,
                                .

8. Classification (,   )

- supervised learning(,   )
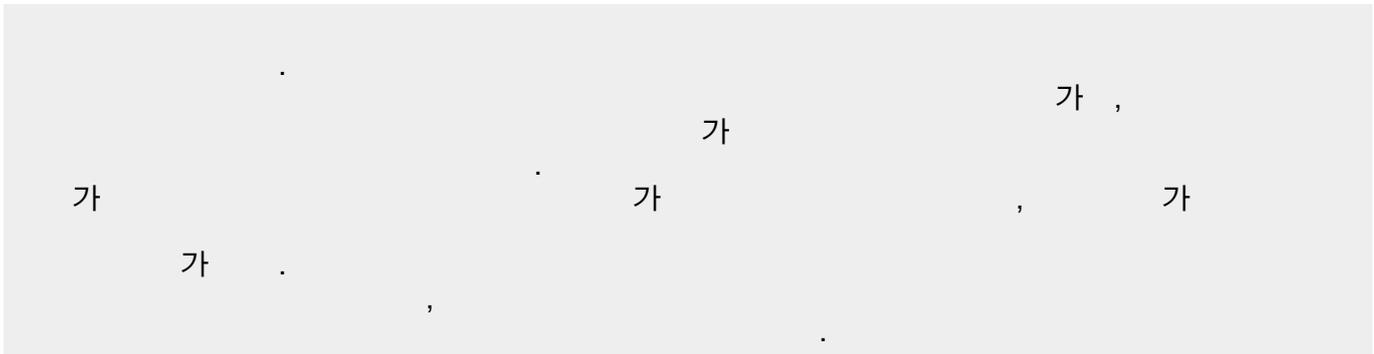
9. Bias (,   )

- Intercept,

10. Clustering (,   )

- unsupervised learning(,   )

11. Matrix (,   )

- Matrix multiplication

12. Feature (,   )
13. Regression (,   )
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
```

18.
19.

```
Y : real data,
Y hat :
```

20. Hyperplane

```
Hyperplane   n                       n-1                    .
        ...
    (1    )                    (O    )        .
    (2    )                        (1    )       .
3                                (2     )       .

==> Classification
```

Ref

[What are the benefits of white-box models in machine learning?](#)
           :   AI --
    , AI
         ,

          ?

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

Image

,   , ai, 2013

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