
Awww?!
In python,
“readable numpy code”
YOON SO YOUNG
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before

Awww?!

```python
import numpy as np

def Perceptron_AND_Before(x):
    x = np.array(x)
    w = np.array([0.5, 0.5])
    bias = -0.7
    mul_sum = np.matmul(x,np.transpose(w)) + bias
    mul_sum = [1 if x>=0 else 0 for x in mul_sum]
    return  mul_sum

print(Perceptron_AND_Before([[0,0],[0,1],[1,0],[1,1]]))
```

1

2

`np.transpose(w)` — `w.T`

`np.matmul(x, w.T)` — `x @ w.T`

`[1 if x>=0 else 1 for x in mul_sum]` — `np.where((x @ w.T + bais)>=0, 1, 0)`

after

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```
def Perceptron_AND(x):
    x = np.array(x)
    w = np.array([0.5, 0.5])
    bias = -0.7
    return  np.where((x @ w.T + bias)>=0, 1, 0)

print(Perceptron_AND([[0,0],[0,1],[1,0],[1,1]]))
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return  mul_sum
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https://docs.scipy.org/doc/numpy/reference/generated/numpy.ndarray.T.html

https://docs.python.org/3/library/operator.html#operator.matmul

https://docs.scipy.org/doc/numpy/genindex.html

more

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    x = np.array(x)
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    return  np.where((x @ w.T + bias)>=0, 1, 0)

print(Perceptron_AND([[0,0],[0,1],[1,0],[1,1]]))
```

numpy.ndarray.T

attribute

Same as self.transpose(), except that self is returned if self.ndim < 2

ndarray.T

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