Classification Single Perceptron Neural

Network

$$h_0 = logistic(0 \times 11.47 + 0 \times 11.72 + 25.84) = 0.99$$

-9.06 $\hat{y} = logistic(9.91 \times 0.99 - 9.06) = 0.7$

bias

9.91



Probability of [0, 0] in Class1 = 0.70

1.47

$$logistic(x) = \frac{1}{1 + e_{-}^{-x}}$$

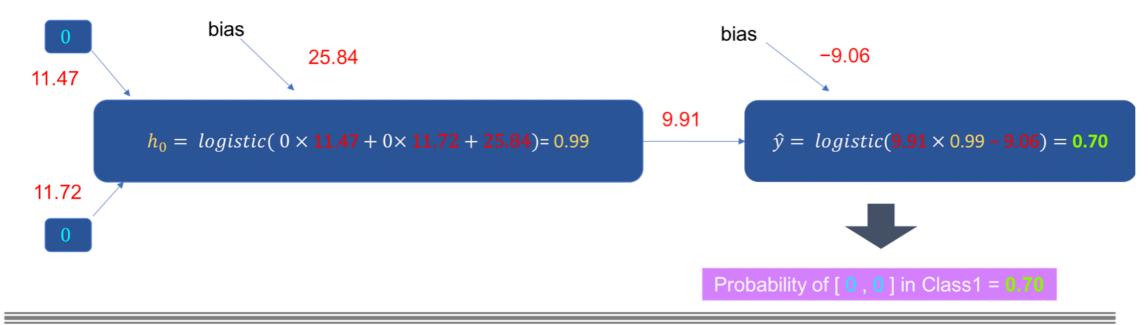
Classification Single Perceptron Neural Network



$$logistic(x) = \frac{1}{1 + e^{-x}}$$

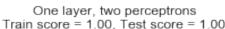
```
single_perceptron.coefs_ = [ array( [[11.47], [11.72]] ), array( [[9.91]]) ]
single_perceptron.intercepts_ = [ array( [25.84] ), array( [-9.06] ) ]
```

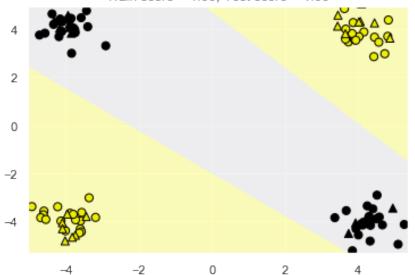
Classification Single Perceptron Neural Network

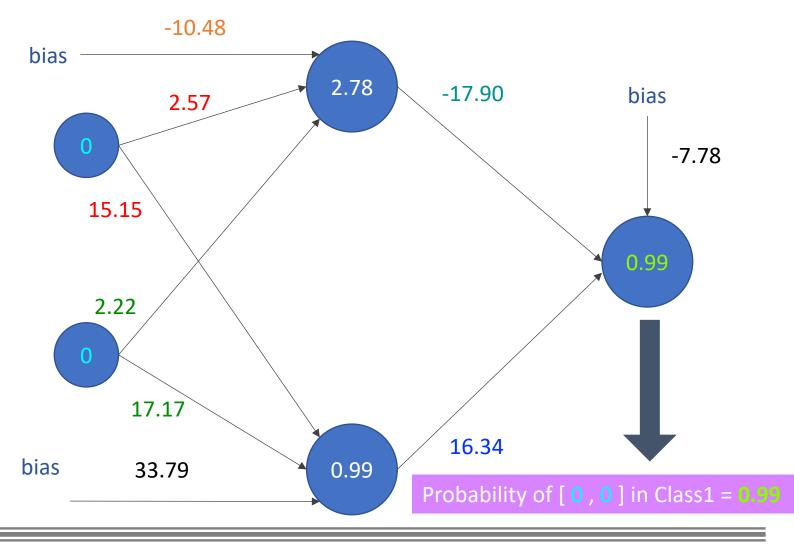


$$logistic(x) = \frac{1}{1 + e^{-x}}$$
 single_perceptron.coefs_ = [array([[11.47], [11.72]]), array([[9.91]])] single_perceptron.intercepts_ = [array([25.84]), array([-9.06])]

Classification One Hidden Layer Two Perceptron Neural Network







Classification One Hidden Layer Two Perceptrons Neural Network

