

Department of Computer Engineering

Artificial Intelligence

Assignment 6 Part 2

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1.1

$$f(w,x) = \frac{1}{1 + e^{-(w_0 x_0 + w_1 x_1 + w_2)}}$$

$$w_0 = 2, x_0 = 1, w_1 = 3, x_1 = 2, w_2 = 3$$

$$= \frac{1}{1 + e^{-1}}$$

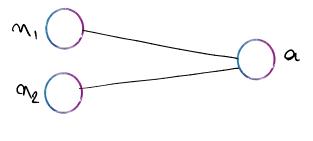
$$= \frac{1}{1 + \frac{1}{e}} = \frac{1}{\frac{1+e}{e}} = \frac{e}{1+e} = 0.73105857863$$

$$\partial$$

1.2

HW 62b

Thursday, December 23, 2021 22:10



activation funco:
$$g_{(m)} = \frac{1}{1+e^{-m}}$$
 (sigmoid)

Weighted Sam fonco: Z (w,n) = Wo no + w,n, + Wr bias

$$\alpha = 9(z(w,n)) = f(w,n)$$

$$= \int_{x_0}^{x_0} |z(w,n)| = \int_{x_0}^{x_0} |z($$

$$-e^{-1}\left(\frac{1+e}{e}\right)^{2}$$