Exp-16 feed feneral nueral network

Code

import numpy as np

def sigmoid(x):

return 1 / (1 + np.exp(-x))

def feedforward(X, W1, b1, W2, b2):

hidden = sigmoid(np.dot(X, W1) + b1)

output = sigmoid(np.dot(hidden, W2) + b2)

return output

X = np.array([[0, 0, 1],

[1, 1, 1],

[1, 0, 1],

[0, 1, 1]])

np.random.seed(1)

W1 = np.random.randn(3, 4)

b1 = np.zeros(4)

W2 = np.random.randn(4, 1)

b2 = np.zeros(1)

output = feedforward(X, W1, b1, W2, b2)

print("Output:\n", output)

output

