



Figure 1: Use this neural network to answer the problem below.

3) Using Figure 1, answer the following questions. Assume there are no bias terms contributing to the input nor any of the activations in each layer.

a. How many layers (L) are there in this neural network? (2 point)

b. How many classes will this neural network classify? (2 point)

c. What are the dimensions of $W^{(2)}$? (4 points)

d. State the equation for $a_2^{(3)}$. (4 points)

Neural Network Exam Question Solution

Annelies Wilder-Smith



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Big Data Analytics in Astronomy, Science, and Engineering Shelly Sachdeva, Yutaka Watanobe, Subhash Bhalla, 2025-03-30 This book constitutes the proceedings of the 12th International Conference on Big Data Analytics in Astronomy Science and Engineering BDA 2024 which took place in Aizu Japan during November 26 28 2024 The 16 full papers included in this book were carefully reviewed and selected from 90 submissions the proceedings also include 6 invited papers The contributions were organized in topical sections as follows Big Data analysis and management data science big data applications and information security

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