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1 Below is a diagram of a single artificial neuron (unit):  
 $y = f(v) = f(w_1x_1 + w_2x_2 + w_3x_3)$   
Figure 1: Single unit with three inputs. The

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Solution Questions 11: Feed-

Forward Neural Networks

Roman Belavkin Middlesex

University Question 1 Below is

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Figure 1:

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Single unit with three inputs.

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solution is unique. 1. (5%)

Check each statement that

must be true if  $w = [w_0, w_1]$

$T$  is indeed the least

squares solution.  $\sum_{i=1}^n (y_i - w_0 - w_1 x_i)^2$

$\sum_{i=1}^n (y_i - w_0 - w_1 x_i)^2$

$\sum_{i=1}^n (y_i - w_0 - w_1 x_i)^2$

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1 Figure 1: Single unit with three inputs.

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7. (F) The back-propagation  
algorithm learns a globally

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optimal neural network with hidden layers. 8. (F) The VC dimension of a line should be at most 2, since I can find at least one case of 3 points that cannot be shattered by any line. 9. (F) Since the VC dimension for an SVM with a Radial Base Kernel is infinite, such an SVM must

### 10-701/15-781 Machine Learning Mid-term Exam Solution

10-601 Machine Learning Midterm Exam October 18, 2012 Question 1. Short Answers True False Questions. (a)[1 point] We can

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get multiple local optimum solutions if we solve a linear regression problem by ...

Solution: 1- Neural network with a shared hidden layer can capture dependencies between diseases.

### 10-601 Machine Learning, Midterm Exam

$2 = 1$  and the activation function is:  $\sigma(v) = \begin{cases} 1 & \text{if } v \geq 2 \\ 0 & \text{otherwise} \end{cases}$  Note that the threshold level is 2 ( $v \geq 2$ ). a) Test how the neural AND function works. Answer: P. 1:  $v = 1 \cdot 0 + 1 \cdot 0 = 0$ , ( $0 < 2$ ),  $y = \sigma(0) = 0$  P. 2:  $v = 1 \cdot 1 + 1 \cdot 0 = 1$ , ( $1 < 2$ ),  $y = \sigma(1) = 0$  P. 3:  $v =$

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$1 \cdot 0 + 1 \cdot 1 = 1$  ,  $(1 < 2)$  ,  $y = \text{step}(1) = 0$  P.

### Questions 11: Feed-Forward Neural Networks

CSC321 Winter 2015 | Intro to Neural Networks Solutions for afternoon midterm Unless otherwise specified, half the marks for each question are for the answer, and half are for an explanation which demonstrates understanding of the relevant concepts. 1. (2 marks) Briefly explain what is meant by overfitting. Is it true that if

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Neural Networks and Deep Learning Winter 2019 Friday, Feb. 15, 6:10-7:40pm Name: Student number: This is a closed-book test. It is marked out of 15 marks. Please answer ALL of the questions. Here is some advice: The questions are NOT arranged in order of difficulty, so you should attempt every question. Questions that ask you to \brie

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Question Solution diseases or to train a single neural network with one output neuron for each disease, but with a shared hidden layer.

Which method do you prefer? Justify your answer. Solution:

1- Neural network with a shared hidden layer can capture dependencies between diseases. 45

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There are 10 questions on the final covering the following Topics: Classification Naive Bayes Network Neural Networks k-Nearest Neighbor

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- Mark your answers ON THE EXAM ITSELF. If you are not sure of your answer you may wish to provide a brief explanation and state your assumptions.
- For true/false questions, II in the True/False bubble.
- For multiple-choice questions, II in the bubble for

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EXACTLY ONE choice that represents the best answer to the question. First name Last name SID

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1 Below is a diagram of a

single artificial neuron (unit):

$y = \sigma(v)$   $w_2 \times 1 \times 2 \times 3$   $w_3$   $w_1$

Figure 1: Single unit with three inputs. The

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solution is unique. 1. (5%)

Check each statement that must be true if  $w^* = [w_1^*, w_2^*, \dots, w_n^*]^T$  is indeed the least squares solution.  $\sum_{i=1}^n (y_i - \sum_{j=1}^n w_j x_{ij})^2$



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$$y = \sum_{i=1}^n (y_i \cdot w_i + b)$$
  
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1 Below is a diagram of a single artificial neuron (unit):  
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7. (F) The back-propagation algorithm learns a globally optimal neural network with hidden layers. 8. (F) The VC dimension of a line should be at most 2, since I can find at least one case of 3 points that cannot be shattered by any line. 9. (F) Since the VC dimension for an SVM with a Radial Base Kernel is infinite, such an SVM must

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2012 Question 1. Short  
Answers True False

Questions. (a)[1 point] We can  
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 $\sigma(0) = 0$  P. 2:  $v = 1 \cdot 1 + 1 \cdot 0 = 1$  ,  $(1$   
 $< 2)$  ,  $y = \sigma(1) = 0$  P. 3:  $v =$   
 $1 \cdot 0 + 1 \cdot 1 = 1$  ,  $(1 < 2)$  ,  $y = \sigma(1) =$   
 $0$  P.

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marks for each question are  
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