



▸ About this course

▼ **Module 1:**
**Introduction to
Deep Learning**

Learning Objectives

Deep Learning: The
Series Introduction
(3:47)

What is a Neural
Network (6:29)

Three Reasons to go
Deep (3:56)

Your Choice of Deep
Net (2:58)

An Old Problem (5:24)

**Graded Review
Questions**

Review Questions



▸ Module 2: Deep
Learning Models

▸ Module 3:
Additional Deep
Learning Models

▸ Module 4: Deep
Learning Platforms
& Libraries

▸ Final Exam

▸ Course Survey and
Feedback

▸ Completion
Certificate

Graded Review Questions Instructions

1. Time allowed: **Unlimited**

- We encourage you to go back and review the materials to find the right answer
- Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

- One attempt - For True/False questions
- Two attempts - For any question other than True/False

3. Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** be able to resubmit your answer for that question ever again

4. Check your grades in the course at any time by clicking on the "Progress" tab

QUESTION 1 (1/1 point)

Select the reason(s) for using a Deep Neural Network

- ☐ Some patterns are very complex and can't be deciphered precisely by alternate means
- ☐ Deep Nets are great at recognizing patterns and using them as building blocks in deciphering inputs
- ☐ We finally have the technology - GPUs - to accelerate the training process by several folds of magnitude
- ☒ All of the above ✓

You have used 1 of 2 submissions

QUESTION 2 (1/1 point)

What is TRUE about the functions of a Multi Layer Perceptron?

- ☐ The first neural nets that were born out of the need to address the inaccuracy of an early classifier, the perceptron.
- ☐ It predicts which group a given set of inputs falls into.
- ☐ It generates a score that determines the confidence level of the prediction.

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You have used 1 of 2 submissions

QUESTION 3 (1/1 point)

Why is the vanishing gradient a problem?

- ☐ Training is quick if the gradient is large and slow if its small
- ☐ With backprop, the gradient becomes smaller as it works back through the net
- ☐ The gradient is calculated multiplying two numbers between 0 and 1
- ☒ All of above. ✓

You have used 1 of 2 submissions

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