1 point

1 point

0 points

1 point

## Unit 8 - Week 6

How does an NPTEL online

Introduction to Autoncoders

autoencoders (Motivation)

Denoising Autoencoders

Contractive Autoencoders

Lecture Material for Week 6

Sparse Autoencoders

O Quiz: Assignment 6

Week 6 Feedback

Week 7

Week 8

Week 9

week 10

Week 11

Week 12

**Download Videos** 

**Text Transcripts** 

Link between PCA and

Autoencoders

Regularization in

Course outline

course work?

Week 0

Week 1

Week 2

Week 3

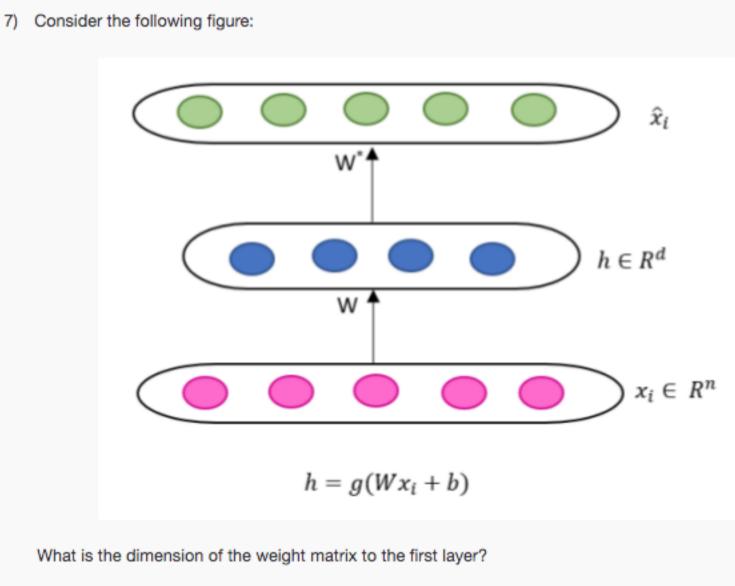
week 4

Week 5

Week 6

NPTEL » Deep Learning - Part 1

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-03-11, 23:59 IS
<ol> <li>"The dimension of the hidden layer is less than the original input layer." Which of the following encoder follows</li> </ol>	above statement? 1 p
O Under complete autoencoder	
Overcomplete autoencoder	
O Sparse autoencoder	
O Denoising autoencoder	
No, the answer is incorrect. Score: 0	
Accepted Answers: Under complete autoencoder	
2) Consider autoencoder where inputs are real numbers (each x <sub>ij</sub> ∈ R) and outputs are also real (each x' <sub>ij</sub> ∈ R) Which of the following function is most appropriate for decoder?	). 1 p
○ tanh	
O Linear decoder	
O Logistic function	
O None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: Linear decoder	
3) In autoencoder, which of the following loss function will be used?	0 poi
O squared error loss	
Cross entropy	
O None of these	
No, the answer is incorrect. Score: 0	
Accepted Answers: squared error loss	
4) In, features are learnt by itself.	1 pc
Machine learning	
O Deep Learning	
Both deep and machine learning	
None of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Deep Learning	
5) A encoder simply corrupts the input data using a probabilistic process before feeding it to the ne	work. 1 p
Denoising	
O Denoising O Sparse	
Openoising Sparse Contractive	



6) Which of the following autoencoder tries to ensure the neuron is inactive most of the time?

0 d x 1

0 n x 1

Odxn none of these

No, the answer is incorrect.

**Accepted Answers:** 

Under complete autoencoder

Overcomplete autoencoder

Sparse autoencoder

Denoising autoencoder

No, the answer is incorrect.

**Accepted Answers:** Sparse autoencoder

Denoising

Score: 0

Score: 0 **Accepted Answers:** 

d x n

8) For the figure given in Q.No. 7, What is the dimension of  $x_i$ ?

0 d x 1

0 n x 1 Odxn

none of these

No, the answer is incorrect. Score: 0 Accepted Answers:

nx1

What is the dimension of b? d x 1

9) For the figure given in Q.No. 7,

0 n x 1 Odxn

No, the answer is incorrect. Score: 0 Accepted Answers:

10) Regularization is used to avoid poor generalization.

d x 1

none of these

○ True False

No, the answer is incorrect. Score: 0

Accepted Answers: True