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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Deep Learning - IIT Ropar (course)



Course outline How does an **NPTEL** online course work? () Week 0 () Week 1 () Week 2 () Week 3 () week 4 () Week 5 () Week 6 () Week 7 () Week 8 () Week 9 () week 10 ()

Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2022-08-10, 23:59 IST.

Assignment submitted on 2022-08-07, 13:32 IST

- - Point
 - Line
 - Plane
 - Hyperplane

No, the answer is incorrect.

Score: 0

Accepted Answers:

Plane

- 2) Pick out the one in biological neuron that is responsible for receiving signal from other *1 point* neurons.
 - Dendrite
 - Synapse
 - Soma
 - Axon

Yes, the answer is correct.

Score: 1

Accepted Answers:

Dendrite

W 1440	3) Which of the following is considered as a drawback of Deep Learning? 1 point
Week 11 ()	Numerical stability
Week 12 ()	Overfitting never occurs
Download	Sharp minima
Download Videos ()	Overfitting always occurs
	Yes, the answer is correct.
Books ()	Score: 1
Text	Accepted Answers: Sharp minima
Transcripts ()	4) Neurons play a vital role in how humans respond to the outside world. When does this <i>1 point</i>
	occur?
Live Sessions ()	Any one neuron gets activated
	All the neurons of massively parallel interconnected network of neurons are activated.
Problem	Specific set of these neurons fire and relay the information to other neurons
Solving Session ()	At least 10% of the total number of neurons in the brain
Ocssion ()	Yes, the answer is correct.
	Score: 1
	Accepted Answers: Specific set of these neurons fire and relay the information to other neurons
	5) Consider a Mc Culloch Pitts Neuron for which the inputs are x_1, x_2 and x_3 . Also, the 1 point aggregate function $g(x)$ is an OR function. What is the thresholding parameter for the same?
	O 0
	1
	O 2
	○ 3
	Yes, the answer is correct. Score: 1
	Accepted Answers: 1
	6) Which of the following statements are True? 1 point
	Statement I. Mc. Culloch Pitts neuron can be used to represent any boolean function Statement II. If any of the inputs in a Mc. Culloch Pitts Neuron is inhibitory, then output will be zero
	Only I
	Only II
	Both
	None
	Yes, the answer is correct. Score: 1
	Accepted Answers: Only II

7) Pick out the boolean function that is not linearly separable.	1 point
AND	
OR	
ONOR	
XOR	
Yes, the answer is correct. Score: 1	
Accepted Answers: XOR	
8) In a perceptron learning algorithm, what is the initial value of the weights before the algorithm starts learning?	1 point
All weights set to zero	
All weights set to one	
All weights assigned random values	
All weights assigned values specific to the application in hand	
Yes, the answer is correct. Score: 1	
Accepted Answers: All weights assigned random values	
9) What is the condition for convergence of a perceptron learning algorithm?	1 point
Always converges	
Data is linearly separable	
O Data is linearly non-separable	
May or may not converge depending on the data	
Yes, the answer is correct. Score: 1	
Accepted Answers: Data is linearly separable	
10) Select all the statements that hold TRUE for a Single Perceptron.	1 point
Inputs are weighted	
☐ Threshold is hand coded	
Only Real inputs are allowed	
☑ Both Real and boolean inputs are allowed	
Can solve only linearly separable data	
Yes, the answer is correct. Score: 1	
Accepted Answers: Inputs are weighted	
Both Real and boolean inputs are allowed	
Can solve only linearly separable data	