

Announcements

About the Course

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Progress Mentor

1 point

1 point

1 point

## Unit 6 - week 4

NPTEL » Deep Learning - Part 1

se outline	Assignment 4	
loes an NPTEL online work?	The due date for submitting this assignment has passed.  Due on 2020-02-26, 23:59	9 IST.
	As per our records you have not submitted this assignment.	
0	1) "Momentum based gradient descent algorithm and Nesterov accelerated gradient descent are faster than Stochastic gradient descent algorithm"	1 poi
1	○ True	
2	O False	
3	No, the answer is incorrect. Score: 0	
1	Accepted Answers: True	
ap: Learning Parameters: ss Work, Gradient cent	2) Consider the following statement, "It takes less time to navigate the regions having a gentle slope" The above statement is true in case of	1 poi
urs Maps	I. Gradient descent algorithm	
ntum based Gradient	II. Momentum based gradient descent algorithm	
	○1 ○Ⅱ	
Accelerated Descent	01&11	
: And Mini-Batch Descent	No, the answer is incorrect. Score: 0 Accepted Answers:	
ljusting Learning		
Momentum	3) Pick out the number of steps in one epoch for Mini batch gradient descent algorithm where N is the number of data points and B is the Mini	1 poi
escent with	batch size.	
rning Rate	○ 1 ○ N	
in Adam	Ов	
al for Week 4	○ N/B	
ment 4	No, the answer is incorrect. Score: 0	
ack	Accepted Answers:  N/B	
	N/D	
	<ol> <li>Identify the technique that is used to achieve relatively better learning rate by updating w using bunch of different values of η.</li> </ol>	1 poir
	○ Bias Correction	
	Line Search     Stochastic	
	○ All the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Line Search	
	5) "There is no guarantee that the loss decreases at each step in a stochastic Gradient Descent"	1 poi
	True  True	1 poir
	○ False	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers: True	
	6) Given two points (2,1) and (4,7), find the slope.	1 poi
	O 4	
	○3 ○2	
	01	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	7) Identify the advantages of Nesterov accelerated gradient descent.	1 poir
	I. Corrects its course quicker than Momentum-based gradient descent	
	II.Oscillations are smaller	
	III.Chances of escaping minima valley are also smaller	
	I only  Il only	
	○ II and III	

8) Pick out the methods for annealing learning rate that has only number of epochs as the hyperparameter.

9) Adagrad got stuck when it was close to convergence. How does RMSProp overcome this problem?

10) Which of the following gradient descent algorithm suffers from more oscillations?

I, II and III

Accepted Answers:

Step decay

1/t Decay

Accepted Answers:

Score: 0

Step decay

No decay

Accepted Answers:

Score: 0

Score: 0

Exponential Decay

No, the answer is incorrect.

More Aggressive on decay

Less Aggressive on decay

No, the answer is incorrect.

Less Aggressive on decay

Vanilla gradient descent

No, the answer is incorrect.

Momentum based gradient descent

None of the above

Accepted Answers:

Momentum based gradient descent

Nesterov accelerated gradient descent

I, II and III

No, the answer is incorrect. Score: 0