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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Deep Learning for Computer Vision (course)



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Course
outline

How does an **NPTEL** online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

exam (https://examform_nptel.ac.in) Week 4: Programming Quiz 1 Due date: 2023-08-23, 23:59 IST.

Assignment not submitted

Instructions:

- Starter code for this assignment is provided in DL4CV Assignment 1 2023.ipynb (https://drive.google.com/file/d/1tF2QdtCM88rf7YYXKkSAuBrdlqcseLTf /view?usp=sharing).
- Use Python 3.x to run the notebook. As instructed in the notebook, write your code only in between the lines 'YOUR CODE STARTS HERE' and 'YOUR CODE ENDS HERE'.
- Do not change anything else in the code; if you do, the answers you are supposed to get at the end of this assignment might be wrong.
- · Read documentation of each function carefully.
- · All the best!
- 1) For this question, please see Question 1 in the iPython notebook (.ipynb file) 1 point provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE" segment therein. What is mean of the sum of final output1 and final output2 in programming question 1? (Choose the closest value)

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2) For this question, please see Question 2 in the iPython notebook (.ipynb file) 1 point provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE" segment therein. What is sum of the elements of the eucledian norm in programming question 2? (Choose the closest value)

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lesson=57)

Improving

○ Neural	20000000
Networks: A Review - Part 1 (unit?unit=49& lesson=50)	provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE" segment therein. What is gradient of w w.r.t loss function in programming question 3? [-4.4869,-2.1056,-3.4464] [4.4869, 2.1056, 3.4464] [-5.3670,-6.2075,-2.4481] [5.3670, 6.2075, 2.4481] 4) For this question, please see Question 4 in the iPython notebook (.ipynb file) 1 point provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE"
Neural Networks: A Review - Part 2 (unit?unit=49&	
lesson=51)	
Neural Networks and Backpropagati on - Part 1 (unit?unit=49& lesson=52)	segment therein. What are total number of parameters in the model in programming question 4? 8197 18521 8356 9105
Feedforward Neural Networks and Backpropagati on - Part 2 (unit?unit=49& lesson=53) Gradient	5) For this question, please see Question 5 in the iPython notebook (.ipynb file) 1 point provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE" segment therein. Report the final train accuracy in programming question 5. (Choose the closest option) 58% 93% 100%
Descent and Variants - Part 1 (unit?unit=49& lesson=54)	 6) For this question, please see Question 6 in the iPython notebook (.ipynb file) 1 point provided alongside. Complete your implementation under the "YOUR CODE STARTS HERE" segment therein. Report the final test accuracy in programming question 6. (Choose the closest option)
O Gradient Descent and Variants - Part 2 (unit?unit=49& lesson=55)	30%40%10%70%
Regularization in Neural Networks - Part 1 (unit?unit=49& lesson=56)	You may submit any number of times before the due date. The final submission will be considered for grading. Submit Answers
Regularization in Neural Networks - Part 2 (unit?unit=49&	

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Training of Neural Networks -Part 1 (unit?unit=49& lesson=58) Improving Training of Neural Networks -Part 2 (unit?unit=49& lesson=59) Lecture Materials (unit?unit=49& lesson=60) Quiz: Week 4: Assignment 2 (assessment? name=226) Quiz: Week 4: **Programming** Quiz 1 (assessment? name=227) Week 4 Feedback Form: Deep Learning for Computer Vision (unit?unit=49& lesson=210) **Download** Videos () **Live Session** () Text Transcripts () Books () **Problem Solving** Session -July 2023 ()

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