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Programming Assignment 1

Click this link to download the Nearest Neighbor MNIST notebook and then complete problem 1.

Click this link to download the Nearest Neighbor for Spine Injury notebook and then complete problems 2-4.

Hello Verified Learners,

As part of the benefit to being a verified learner, the professor has created special notebooks in certain weeks where you can test your knowledge. These notebook are completely optional and do not count towards your grade in this course; however, it will help you understand the material better and give you hands on training.

Download Notebook

Problem 1

2/2 points (graded)

This problem is based on the Nearest Neighbor MNIST notebook. You will solve the problem while you are working through the notebook, and you should enter the solution here. Find the nearest neighbor (in the training set) of test point 100.

a) What is the index of this training point?

4711	✓ Answer: 4711
4711	

b) What is the label of this training poir	nt?
4 Answer	r: 4
Submit	
Answers are displayed within the	problem
Problem 2	
	d on the Nearest Neighbor for Spine Injury notebook. SL) was most frequently misclassified by the L_1 -based
O NO	
O DH	
○ SL	
✓	
Submit	
Problem 3	
1/1 point (graded) In the test set, which class (NO, DH, or seeighbor classifier?	SL) was never misclassified by the L_2 -based nearest
O NO	

• SL	
✓	
Cubmit	
Submit	
rahlam /	
TODIETTI 4	
1 point (graded)	be test points did the two classification schemes (based on $L_{ m 1}$ and $L_{ m 2}$
	ne test points did the two classification schemes (based on L_1 and L_2 erent predictions?
/1 point (graded) In how many of tl	
/1 point (graded) In how many of tl	
/1 point (graded) in how many of tl istance) yield diff	
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