

CPSC 8810: Project 1 Rubric

	points	out of
Part 1: PyTorch 101 (6 points)	6	6
<i>Tensor Basics: functions implemented correctly (1.5 points)</i>		
create_sample_tensor	0.3	0.3
mutate_tensor	0.3	0.3
count_tensor_elements	0.3	0.3
create_tensor_of_pi	0.3	0.3
multiples_of_ten	0.3	0.3
<i>Tensor Indexing: functions implemented correctly (1.5 points)</i>		
slice_indexing_practice	0.1	0.1
slice_assignment_practice	0.1	0.1
shuffle_cols	0.2	0.2
reverse_rows	0.2	0.2
take_one_elem_per_col	0.3	0.3
make_one_hot	0.3	0.3
sum_positive_entries	0.3	0.3
<i>Tensor Reshaping: function implemented correctly (0.5 points)</i>		
reshape_practice	0.5	0.5
<i>Tensor Operations: functions implemented correctly (1.5 points)</i>		
zero_row_min	0.5	0.5
batched_matrix_multiply_loop	0.5	0.5
batched_matrix_multiply_noloop	0.5	0.5
<i>Broadcasting: function implemented correctly (0.5 points)</i>		
normalize_columns	0.5	0.5

<i>Running on GPU: function implemented correctly (0.5 points)</i>		
mm_on_gpu	0.5	0.5
Part 2: K-Nearest Neighbors (4 points)	4	4
<i>Compute Distances: functions implemented correctly (1.5 point)</i>		
compute_distances_two_loops	0.5	0.5
compute_distances_one_loop	0.5	0.5
compute_distances_no_loops	0.5	0.5
<i>Predict Labels: function implemented correctly (0.5 points)</i>		
predict_labels	0.5	0.5
<i>KnnClassifier: class functions implemented correctly (1 point)</i>		
__init__	0.5	0.5
predict	0.5	0.5
<i>Cross-validation: functions implemented correctly (1 point)</i>		
knn_cross_validate	0.5	0.5
knn_get_best_k	0.5	0.5

Submission Format: .zip file including project files (pytorch101.ipynb, pytorch101.py, knn.ipynb, and knn.py). Up to 1 point (10%) may be deducted for incorrect submission format.

Late Work Policy: All work is expected to be handed in at the indicated due date and time. Every student has 2 free late days to use on assignments. Once free late days are exhausted, 10% points will be deducted, if the submission is within 24 hours after the due date. Then, for every day after the first 24 hours, your penalized points will be double (from 30%, 90%, then 100%). If you want to use a grace day to one of your submission, you should immediately notify the course TA before the submission deadline.