

CS464 Homework Guidelines

- Unnecessary for and while loops in Python and MATLAB might be penalized. You have to use matrix algebra when possible since they are optimized to run faster than for loops. For instance, to find the sum of all elements in a 2D matrix M , you may simply write `sum(sum(M),2)` in MATLAB instead of constructing a double for loop. In this case, using for loop might be penalized.
- By default, assume that you cannot use any machine learning libraries and built-in functions unless stated otherwise. It is stated in all questions that if you can use libraries but in case of an ambiguity or lack of explanation, assume that you cannot use any machine learning libraries.
- Training some models may take hours of time. Thus, please do not postpone doing this homework to the last minute.
- Please format your graphs and tables nicely. Do not forget to provide a title, axes labels and a legend for your figure.