

PHYS 427 Lab Report Guidelines

Lab Report Checklist

Make sure your code achieves the assigned tasks

Each assignment has a clear set of tasks or goals you need to achieve. Be sure to read the tasks carefully and make sure your code/Neural Net model meets such goals.

Clean/organize your code in the final submission

Starting from lab 2, make sure each step in neural net training workflow (e.g., data prep, define model, select hyperparameters, identify tracked values, train model, evaluate model) is clearly defined in your code. Clean up the code that are not needed for your final report.

Comment your code

Comments should provide sufficient information about how your code functions. At minimum, include a short sentence explaining each crucial step in your code. Comments in provided example notebooks and lab template should provide good guidelines.

Run all Jupyter cells from top to bottom before submitting

You are encouraged to **restart & clear outputs** from the kernel drop down menu and execute each code cell one by one from top to bottom before submission. Make sure 1) there isn't any error 2) your code produces correct results during this process. If this process takes too much time due to model training or you aren't sure about your model reproducing the best results, you may submit without this step.

Make your graphs readable

All information given in your graph should be readable. This includes size of your graph, proper labels for x,y axis, title, and legends etc.

Submitting your lab report

Your lab report should be in **jupyter notebook** (.ipynb) that builds on top of the provided lab template notebook.

Set filename to be "Lab_#_XYZ.ipynb" where # = lab number, XYZ = Your name – e.g., Lab_1_JiminKim.ipynb.

You can download your jupyter notebook from File -> Download as -> Notebook.

At top cell, **don't forget to write your name.**