

## 2. Practical Tasks

This task is meant to get you acquainted with DeepDIVA framework which you will be using for the semester project. So the time you spend on this task is an investment for the project.

### Useful links

- [PyTorch](#)
- [PyTorch Tutorials](#)
- [DeepDIVA](#)
- [DeepDIVA Tutorials](#)

### 2.1 Get started!

Make sure you have a fully functional version of DeepDIVA by completing the [getting started](#).

### 2.2 Exploring

The following steps will guide you in creating your own experiment.

- [Download and prepare CIFAR](#)
- [Run Image Classification](#) on it with default parameters and seed 42. Report the % accuracy on the test set.
- [Change the optimizer to Adam](#) and run again the experiment. Report % accuracy on test set.
- [Design another network](#). To make it quick, copy CNN\_Basic.py and swap the LeakyReLUs for Tanh. Then run again the experiment and report % accuracy on test set. NOTE: Do not modify the file of CNN\_Basic.py but create another one of your own and have it working!
- [Visualize the results of these runs on a Tensorboard](#). Just put any screenshot of the web interface with the experiments to prove you got it working is enough.