Pytorch

Matrix multiplication on Torch GPU 18x faster than on Torch CPU, 40x than on Numpy.

Import torch.nn as nn: module contains functions that help in building NN models.

Mandatory to inherit from nn.Module for customize NN architecture. Call super().\_\_init\_\_() inside \_\_init\_\_() to ensure class inherits nn.Module.

Use torch.manual\_seed(0) just b4 NN declaration to ensure weight are the same vle.

When computing loss, send the prediction first and then the GT. Convention of Pytorch.

loss\_value = loss\_func(\_Y,Y)

after every batch, weight is updated.

Good practice to transfer the model to CPU before calling torch.save so that save tensor as CPU tensors instead of CUDA tensors. Can run on any machine.