ANN

Nov 10, 2020

Department of Computing
The Hong Kong Polytechnic University

Announcement

- Deadline of Assignment 3: 23:59 Nov. 10th
- Deadline of Assignment 4: 23:59 Nov. 17th

Outline

- Introduction of Pytorch
- ANN Algorithm Using Pytorch
- Assignemnt 4

Pytorch

- It's a Python based scientific computing package targeted at two sets of audiences:
  - A replacement for NumPy to use the power of GPUs
  - Deep learning research platform that provides maximum flexibility and speed
- Document: https://pytorch.org/get-started/locally/
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Lab assignment 4: ANN

Create Your First Artificial Neural Network in PyTorch

- Read in Iris Dataset
- Split Data into training and test data with proportion 3:1.
- Build an artificial neural network using CrossEntropyLoss nn.CrossEntropyLoss().(You can try different hidden layers, different activation functions such as ReLu, LeakyReLu, etc.)
- Train the network and draw the training loss and training accuracy plot.
- Report your best test accuracy on test data.
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