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Machine Learning with Python-From Linear Models to Deep Learning

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7. Classification for MNIST using deep neural networks

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In this section, we are going to use deep neural networks to perform the same classific sections. We will use <u>PyTorch</u>, a python deep learning framework. Using a framework lib don't have to implement all of the details (like in the earlier problem) and can spend mo your high level architecture.

Setup Overview To setup PyTorch, navigate to <u>their website</u> in your browser, select yo begin downloading. Your selection for **OS** and **Package Manager** will depend on your lost if you are on a Mac and use pip as your Python package manager, select "OSX" and "Package Python version 3 for use with PyTorch. Finally, you are not required to train large so you can safely select "None" for CUDA. If you have access to a NVIDIA GPU enabled library installed, and want to try training your neural models on GPUs, feel free to install selected but you will have to troubleshoot on your own.

Test your installation Once you have successfully installed PyTorch using the instruction should test your installation to ensure it is running properly before trying to complete the functionality, you can start a python REPL environment with the python command in your importing PyTorch with import torch.

Discussion

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