January 29-February 2 : Advanced machine learning and data analysis for the physical sciences

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Overview of third week

- 1. Review of neural networks and writing own code
- 2. Discussion of first data set

Videos on Neural Networks

- Video on Neural Networks
- Video on the back propagation algorithm

I also recommend Michael Nielsen's intuitive approach to the neural networks and the universal approximation theorem, see the slides at http://neuralnetworksanddeeplearning.com/chap4.html.