## Theano

* <https://github.com/Newmu/Theano-Tutorials>

## Neon

* <https://github.com/NervanaSystems/neon/tree/master/examples>

## has a great collection of examples which can be readapted

## KERAS

## <https://github.com/fchollet/keras/tree/master/examples>

## [http://keras.io](http://keras.io/)

## <https://www.microway.com/hpc-tech-tips/keras-theano-deep-learning-frameworks/>

## Lasagne

* <https://github.com/craffel/Lasagne-tutorial/blob/master/examples/tutorial.ipynb>

## Neural Network

* Intro <https://nyghtowl.io/2015/04/12/pycon-2015-neural-nets-for-newbie/>

## Scene recognition

* <http://www.nervanasys.com/using-neon-for-scene-recognition-mini-places2/>
* “To go along with the new dataset and the ILSVRC challenge, the MIT course 6.869: Advances in Computer Vision hosted a competition in Fall 2015 to build the most accurate scene recognition model on a miniature version of Places2, scaled down in the interest of time. The smaller dataset featured only 100,000 images in the training set and 10,000 images for validation, and was publicly available on the course page at the time of this post. Inspired by the cross-domain success of convolutional neural networks, we began the competition by using architectures from object recognition despite the potential difficulty mentioned above. "

Sentiment analysis

* <https://github.com/NervanaSystems/meetup/blob/master/imdb_example.ipynb>
* “Train an recurrent neural network to parse movie reviews from IMDB and decide if they are positive or negative reviews”

Stock prediction

* <http://eugenezhulenev.com/blog/2014/11/14/stock-price-prediction-with-big-data-and-machine-learning/>
* “Apache Spark and Spark MLLib for building price movement prediction model from order log data.”

Convnet

* Intro MINST <http://blog.christianperone.com/2015/08/convolutional-neural-networks-and-feature-extraction-with-python/>
* Intro MINST <http://katbailey.github.io/post/neural-nets-in-python/>
* Intro MINST <http://nbviewer.jupyter.org/github/dnouri/nolearn/blob/master/docs/notebooks/CNN_tutorial.ipynb>
* MINST lasagne: <http://blog.mathandpencil.com/training-MNIST-using-lasagne/>
* MINST lasagne: <http://lasagne.readthedocs.io/en/latest/user/tutorial.html>
* MiNST Block: <http://blocks.readthedocs.io/en/latest/tutorial.html>
* Intro VGG16 <https://gist.github.com/baraldilorenzo/07d7802847aaad0a35d3>
* Intro <http://www.slideshare.net/roelofp/python-for-image-understanding-deep-learning-with-convolutional-neural-nets>
* CIFAR 10: <https://blog.rescale.com/neural-networks-using-keras-on-rescale/>
* Saliency detection: <https://imatge.upc.edu/web/resources/end-end-convolutional-networks-saliency-prediction-software>
* Face Detection: <https://www.kaggle.com/c/facial-keypoints-detection/details/deep-learning-tutorial>
* Conv Autoencode: <https://github.com/mikesj-public/convolutional_autoencoder/blob/master/mnist_conv_autoencode.ipynb>

## Image Caption

* <http://datascience.stackexchange.com/questions/10368/image-captioning-in-keras>
* http://www.nervanasys.com/intern-spotlight-implementing-language-models/

## Visual Q&A

## <http://iamaaditya.github.io/2016/04/visual_question_answering_demo_notebook>

## LSTM

* <https://github.com/fchollet/keras/blob/master/examples/stateful_lstm.py>

## Sequence to Sequence

* <https://bigaidream.gitbooks.io/subsets_ml_cookbook/content/dl/theano/theano_keras_sequence2sequence.html>
* <https://github.com/farizrahman4u/seq2seq>

## Q-Learning / Deep Mind

* Code <https://github.com/tambetm/simple_dqn/>
* Intro <http://www.nervanasys.com/deep-reinforcement-learning-with-neon/>
* <https://github.com/farizrahman4u/qlearning4k>

## GPU

* <http://markus.com/install-theano-on-aws/>
* http://blog.dominodatalab.com/gpu-computing-and-deep-learning/

SPEECH

* <https://www.kaggle.com/c/second-annual-data-science-bowl/forums/t/18548/keras-deep-learning-tutorial-0-0359>
* <http://gitxiv.com/posts/NDgNvCtsq6vFZcYnF/deep-speech-scaling-up-end-to-end-speech-recognition>

## VARIOUS

* [https://medium.com/@jiefeng/deep-learning-playbook-c5ebe34f8a1a#.fwcsvpzfq](https://medium.com/@jiefeng/deep-learning-playbook-c5ebe34f8a1a" \l ".fwcsvpzfq)

FORUMS

* https://groups.google.com/forum/#!forum/keras-users