CIVIS MODELZOO(S)

martin @ reddragon.ai sam @ reddragon.ai

11 October 2017

WiFi : SG-Guest

Problems with Installation? ASK!



PLAN OF ACTION

TODAY

- CNN model zoos & transfer
- Launch into a CNN features project



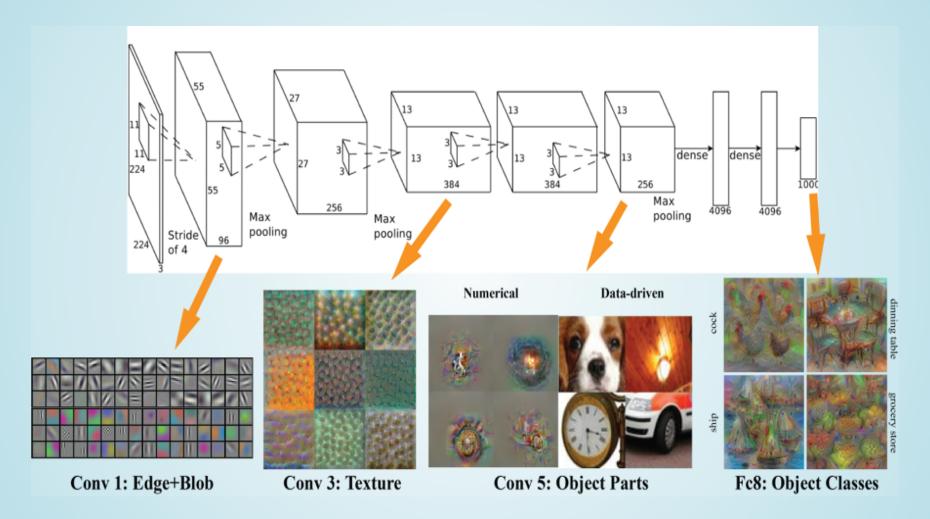
PLAN OF ACTION

MONDAY

- Start with CNN features wrap-up
- Text & Embeddings
- RNN intro



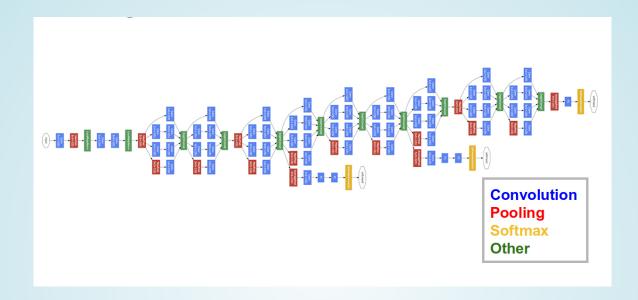
ALEXNET



ImageNet Classification with Deep Convolutional Neural Networks (2012) (Alex Krizhevsky)



2014: STATE-OF-THE-ART



GoogLeNet - aka Inception v1



THE CODE

- Explore some Keras Model Zoo tradeoffs
- github.com/mdda
 /deep-learning-workshop
 /notebooks/2-CNN/4-ImageNet
 /0-modelzoo-tf-keras.ipynb



GOALS

- Move a model from one zoo to another
- In particular GoogLeNet from slim to Keras:
 - Small(ish) model
 - Decent performance
 - Historically significant
- Get to contribute to Keras (?)



THE CODE

- Finished product... (including workings):
- github.com/mdda
 /deep-learning-workshop
 /notebooks/9-Utilities
 /C-slim-to-keras.ipynb



- QUESTIONS -

MARTIN.ANDREWS@REDDRAGON.AI

My blog: http://mdda.net/

GitHub: mdda

