Honors Report
Unsupervised Recurrent Attention Model

Vidit Jain (201501021)

How to run the code

- For training the unsupervised recurrent attention model
  - python3 main.py
- For seeing the glimpses
  - python3 plot_glimpses.py --plot_dir=PATH_TO_THE_PLOT_DIR --epoch=EPOCH_NUMBER
  - eg. : " python3 plot_glimpses.py --plot_dir=./ram_9_6x6_2/ --epoch=1 "
  - Here the data while training is saved for each epoch in the plot/ directory with model name as : ram_NO_OF_GLIPMSES_SIZE*SIZE_SCALE.
  - Here different different data is saved for each epoch like locations as l_EPOCH_NO, glimpses data as gp_EPOCH_NO, formed images, and original images.
  - To see the results we can parallelly see the output by running the above command after that particular epoch is done.
- For testing
  - python3 main.py --is_train=false --model_epoch=PRETRAINED_SAVED_MODEL_EPOCH_NO
  - eg.: python3 main.py --is_train=false --model_epoch=9

- **Note : If the data download fails for some reason (it won't but happens with me once) add the cifar-10-python.tar.gz in the data directory.**