Assignment 9: Generative Models

Start Assignment

Due Tuesday by 5:59pm **Points** 6 **Submitting** a text entry box or a file upload

Question 9 (1 point)

How many parameters are there for a Long Short-Term Memory (LSTM) cell where the embeddings from the layer above have 1,024 features per embedding, and the LSTM cell also has 1,024 features?

Model 9 (5 points)

Please navigate to the following URL to accept the invitation for this Kaggle task:
https://www.kaggle.com/t/d372b2e587874829a3bbe48b8e0a9abd

Activate the tensorflow conda environment on your VM (where you installed the kaggle api) and download your data:

conda activate py37_tensorflow

Download the data and the vocabulary:
kaggle competitions download ml530-2021-sp-ptb
wget --timeout=2 https://www.cross-entropy.net/ML530/ptb-vocabulary.dat

Create the tensors and train your model:
unzip ml530-2021-sp-ptb.zip
cd ptb-data
wget --timeout=2 https://www.cross-entropy.net/ML530/ptb-sentences.py.txt
wget --timeout=2 https://www.cross-entropy.net/ML530/ptb-tensors.py.txt
wget --timeout=2 https://www.cross-entropy.net/ML530/ptb-train.py.txt
python ptb-tensors.py.txt
python ptb-train.py.txt

Upload your predictions:
kaggle competitions submit ml530-2021-sp-ptb -f predictions.csv -m "ptb submission"