

### Steps to use my model:

- Switch to the pytorch\_latest\_p36 environment
- Put data files in the same directory as the main.py
- Create a folder called "main{trial}" in the same directory, the numbers should be consistent with the ones in main.py
- Run "Python3 main.py"
- You can check which model has the best performance in the main{trial} folder and copy the file name to the checkpoint variable at the bottom of main.py
- Uncomment the lines under "Predict" and only run those lines to get the prediction file.

### Architecture:

Minimum baseline: This should get to ~25 mean Levenshtein distance within 20-30 epochs

- Model:
  - CNN:
    - Conv1d
    - BatchNorm1d
    - ReLU
  - RNN - BiLSTM:
    - hidden size 512
    - Num\_layers 4
    - Dropout 0.2
    - Locked dropout around rnn
  - Linear
- optimizer Adam
  - weight decay 1.2e-6
- learning rate 1e-3
  - ReduceLROnPlateau: factor=0.7, patience=3
- Batch size: 64