



### Assignment #8: TensorFlow Lab 4

**The material in Moroney chapter 6 will be essential to this assignment.**

#### Task 1:

- If you want to review the material from Chapter 6 in video form you can watch part 3 of Lawrence Moroney's NLP: Zero to Hero here:  
<https://www.youtube.com/playlist?list=PLQY2H8rRoyvzDbLUZkbudP-MFQZwNmU4S>
- Just FYI, parts 1 and 2 cover the material from Chapter 5

#### Task 2:

- Open the following colab exercise that is based on Chapter 6: <https://goo.gle/tfw-sarcembed>
- You can run one cell at a time (which is instructive when you are just getting started with colab) by clicking the play button in the upper left corner of each cell. The cells should be run in order, top to bottom.
- Did running this program produce results consistent with what you saw in Chapter 6 of the text? What variations, if any, did you notice?
- From the file menu, select 'Save a copy in Drive'. This will allow you to make changes and save the notebook.

#### Task 3:

- Using the notebook that you saved in Task 2, work through making the changes that are documented in the section of Chapter 6 labeled "Reducing Overfitting in Language Models". Describe the results that you get compared to what is in the textbook.
- From the File menu, download the final version of your notebook and email it to me along with the answers to questions above.

Turn in your lab via email by Wednesday, November 6.