CS 59000 Application of Deep Learning

Homework 7: Music Generation with RNNs

Due on November 13, Wednesday, 2024, 11:59pm

The goal of this homework assignment is to help you get familiar with applying Recurrent Neural Network (RNN) for music generation. Specifically, please work on the following lab:

https://github.com/aamini/introtodeeplearning/blob/master/lab1/Part2_Music_Generation.ipynb

That is, "**Part 2: Music Generation with RNNs**" in the "Lab 1: Intro to TensorFlow and Music Generation with RNNs", which is provided by "MIT 6.S191: Introduction to Deep Learning". Please open the file and run it in Google Colab. Please keep "**TODO**" in the comments and do not remove them.

Please create "hw7" folder in the root of your private repository "CS59000_App_Deep_Learning_Assignments" at GitHub and then upload your Jupyter notebook file **with the outputs** to be under "hw7" folder at GitHub. Moreover, download generated "**song 2**", and then upload it to be under "hw7" folder at GitHub.

Grading rubric:

- Section 2.3 – 20 pts
- Section 2.4 – 10 pts
- Section 2.5 – 40 pts
- Section 2.6 – 30 pts

Total: 100pts

Acknowledgement: This homework assignment is from "MIT 6.S191: Introduction to Deep Learning".