**Composer based on LSTMs**

Course project for big data analysis. This project aims to generate music piece based on machine learning and big data technology.

**How to generate your own piece of music?**

1. Download dependency library.  
<https://github.com/llSourcell/AI_Composer>2. Substitute the main.py and Nottingham\_util.py with main.py and datacleanandmodel.py in this repository.  
3. Choose your favorite dataset and separate it into three subdirectories: train, test, valid.  
4. Follow the usage of dependency library.  
5. A piece of music in the format of midi file will be generated.

**Enjoy the music samples generated by us!**

We conclude a UI to present our result. The **src** file is the source code of the UI. You can enjoy the music generated by us in the **generatedsounds** file (we have changed them into mp3 file).

**Provided Dataset**Here we provide you with some datasets collected by us.  
Links for origin of dataset:  
<http://yuan.yocjh.kh.edu.tw/midi/> <http://vgmusic.com/updates/> <http://www.cnkeyboard.com/>