ChopSPT

Source Code

Github: https://github.com/ritikr1/ChopSPT/
Or Google Drive:
https://drive.google.com/file/d/1ZgXYgkrraf3konk62UfZ076RzPH44deU/view?usp=drive_link

Description

ChopSPT (Chopin Specific Purpose Transformer) is a PyTorch-based Audio Language Model and music generator I coded from scratch in Python that has just one goal: produce piano compositions that rival that of the great master Chopin (though it's trained on many more composers as well).

Getting started

Dependencies

PyTorch library, any recent version will work (https://pytorch.org/)

MIDITok library (https://pypi.org/project/miditok/)

Symusic library (https://pypi.org/project/symusic/)

Installing program

Unzip the folder called "ChopSPT." Open your terminal. Navigate to the directory where "ChopSPT" is saved, and follow the steps to execute the program.

Executing program

To run inference on this model from the saved weights file in the folder, just run "python music_reloader.py." This will run the model, creating a short composition and save it as a MIDI (.mid) file called "generated_output.mid."

To listen to the output for yourself, you'll need a program like MuseScore or any other MIDI music player.