

Music Generation with Transformer

My transformer produced an interesting, though not incredibly great, line of piano music resembling Tchaikovsky's pieces. When exploring my output folder of the music generation as the model was performing, I noticed that the generated music started as one repeated note. As the model continued to train, it became more adventurous with different beats and notes. The final output I received was interesting in that it had some repetition of notes and rhythms while not being overly repetitive. My most significant issue is switching to bass clef halfway through the song and then back to bass clef at the end. It does not make sense, especially since only the song's last note switches to a different clef. I do not have a strong understanding of music theory, but I also found it odd that the only accidentals are seen halfway through the song C# and F# and nowhere else. I think the model did an okay job of recognizing concepts of the style of Tchaikovsky, like the tendency toward eighth notes followed by an eighth rest. Much of his music is ballet and thus has a quicker-paced, step-like rhythm to it. It was interesting at the end how it produced staccato notes, although not much elsewhere. I think that this is because of the mixture of pieces trained on: while some of Tchaikovsky's pieces are shorter and choppy beats would have many staccatos, some of the slower drawn-out dances would be more extended notes indicated by tenutos, slurs, or simply absence of staccatos.

