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••••••• The album, Carnatic Classical - Instrumental, has 9 songs which are sung by artists like Akpalanivel, Akcnatarajan. You can play Carnatic Classical - Instrumental songs online for free, and download mp3 songs of Carnatic Classical - Instrumental on the Wynn Music mobile app. Keep Wynnking!; No tracks found for this artist This article was published as a part of the Data Science Blogathon. Music is the rhythm of the life is a universal language. It has the ability to effortlessly transcend the opaque body, subtle mind, and invisible soul. At the end of a long hard-working day, listening to your favorite music composition can give a much-needed solace and fresh energy to look forward to dealing with life with a smile. In this article, I focused on the following topics: Play and visualize Carnatic Music Ragas using Google Magenta library Generate Carnatic Music Raga notes using machine learning techniques Generate random Carnatic Music Raga notes with simple python scripts Introduction Having learned the basics of Carnatic Music in my childhood, I always had the fascination to automate generating this ancient form of South Indian classical music. Hindustani Music is popular in North India. Indian film music is more popular nowadays, which often takes inspiration from both these classical forms of music. In the pursuit of a good tool to generate music, I came across the Google Magenta project. It has a simple yet powerful way to generate Note sequence music. My attempt to generate Carnatic music with this tool is presented here. Basics of Carnatic Music vis-à-vis Western Music Western music has scales and notes generated by the keys with Major and Minor scales, whereas Indian Classical music has Raga or Raga which is more than a set of notes or swaras. Western music generated with notes is discrete by design. Raga is continuous and captures human emotion along with mood, expression, and energy. Despite many differences, fortunately, both are based on 12 keynotes or swaras which can help in generating Indian classical music from a broader perspective, ignoring the microtonal perfections. Let's see how Indian Classical music (Carnatic Music) notes map to Electronic Piano notes to understand the similarities and possibilities for Carnatic Music generation. Unlike the western music system where swaras/notes frequencies are fixed; in the Indian classical music system variations in few notes are allowed. This scheme envisages 'Sa' and 'Pa' as fixed notes, with 'Ma' having 2 variants and the remaining swaras having 3 variants each. Swaras/Notes and their variations are given in above table. In total, Carnatic Music considers 16 Swaras/Notes for classifying and accommodating a rich variety of Ragas. "Ma" is the median among 7 major swaras. Since 'Ma' has 2 variants, it divides the Root Ragams also called "Melakarta" Ragams or Parent Ragams into two equal parts. This picture below depicts the division of these 72 major Ragams which have all 7 major swaras. Thousands of Child Ragas are derived by adding, omitting, or transposing the notes from these 72 main Ragas. 1.Carnatic Music with Magenta Enough of theory, now let's jump into Carnatic Music generation using Google Magenta. Click this link to run the below examples yourself. This is the easiest way to get started with Magenta. Here, you can generate music, download it as MIDI and also see the graphical music patterns with Bokeh library. Everything in Magenta is centered around NoteSequences. This is a fantastic abstract representation of a series of notes, each with different pitches or srutis, instruments and strike velocities, much like MIDI. The beginners of Carnatic Music are first taught with Mayamalavagowla Raga, the 15th Melakarta (see the chart above). It has the following notes/swaras. sa, ri1, ga2, ma1, pa, da1, ni2 The ascending order (Aarohana) and descending order (Avarohana) have all the same 7 swaras, which is a common property for all Melakarta Ragams. The following python script plays this raga notes. Run this code in Step 1 of the Hello Magenta Colab window given above. Visualizing the Ragas The above code generates the graph and note sequence as MIDI file for 3 ragas. You can observe the symmetry of notes in the graph, which may be the reason, new students are started with this Mayamalavagowla Raga. Punching the main keynotes on piano will generate Sankarabharam Raga, which appears to be a platykurtic gaussian normal distribution. Music is all about melodious patterns A new student is taught to sing/play some notes/swaras patterns. Here is a code snippet for one such beautiful pattern called sarali swaram. Any raga with the same ascending order and descending order notes can be played with the above pattern Generating variable-length note sequences Many times, notes/swaras need to be played at variable lengths. NoteSequence has provided this feature with start time and end time parameters. This code generates notes for one such basic composition called Pillari Getam. 2. Generate Raga notes using Melody RNN Till now, we just used NoteSequence to generate Carnatic Raga Notes. Now, let's try to generate music with the Recurrent Neural Network model developed by the Google Magenta team. A MelodyRNN is an LSTM-based language model for musical notes — it is best at continuing a NoteSequence that you give it. Try running this code in Step-2 of the Hello Magenta Colab file to see the result of generating Carnatic Raga Notes using Melody RNN. I saw that the output sequence generated by Melody RNN does go beyond the given Raga Notes. A single note change can result in deviation from Raga's pattern. This is not as desirable as per the rigid properties of Raga. 3. Generate random Raga notes with simple Python Scripts When complex things are not working, try simple options This is a simple code to generate random Raga Notes with variable lengths. This script generates only the notes present in the Raga. This is a very simple one and serves the basic purpose of random notes generation. Conclusion In this article, I attempted to explore the possibilities of generating Carnatic Music Raga notes with Magenta NoteSequence. Automatic Note sequence can be generated with Melody RNN, but it produced notes beyond Raga pattern notes. So, I provided a simple random notes generator, that may serve basic needs while confining to Raga note sequence limits. Related



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