AI Lullaby

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This project takes in MIDI input in Java (in the form of a monophonic melodic phrase) from a MIDI synthesizer keyboard and sends it to a probability suffix tree algorithm to train on. The algorithm then outputs a melody based on the user’s input melody and sends it to a Max application through OSC messaging, which plays each note in the new melody every second to produce a lullaby. It is encouraged for the user to keep sending input phrases to the program in order to have a melodic conversation with the AI program.