|  |  |  |
| --- | --- | --- |
| Dataset | characteristics | Models and Technique |
| Midi melody files for theme song | 60 midi files | LSTM |
| Midi piano files | 92 midi files | LSTM |
| Lakh pianoroll dataset | 174,154 multitrack piano rolls | 1)JamBot (LSTM)  2)Convolutional Generative Adversarial Networks with Binary Neurons for Polyphonic Music Generation (GAN)  3)MuseGAN (GAN) |
| Lo-Fi Hip Hop MIDIs | 93 midi files | 1) Lo-Fi Hip Hop Generation(LSTM) |
| Multi-modal MIREX Emotion Dataset | 193 midi files |  |

**References**

1. JamBot

Gino Brunner, Yuyi Wang, Roger Wattenhofer and Jonas Wiesendanger\* Department of Information Technology and Electrical Engineering ETH Z ¨urich Switzerland

1. CONVOLUTIONAL GENERATIVE ADVERSARIAL NETWORKS WITH BINARY NEURONS FOR POLYPHONIC MUSIC GENERATION

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1. MuseGAN

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1. Lo-Fi Hip Hop Generation

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