Deep Learning

RNN & AE

1800

Exercise 01 700

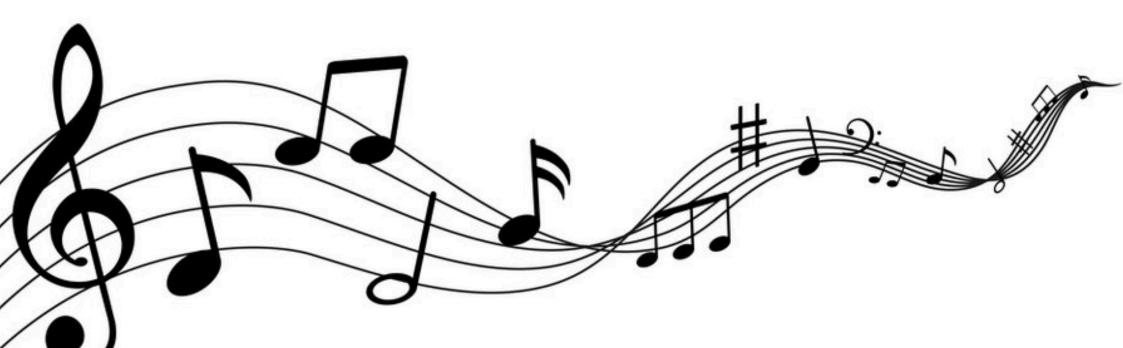
1. Generate a music using RNN (Simple RNN, LSTM, ...)

Hints:

- music length must be more than 3 seconds.
- Send the music file along with the code.

Link of Dataset:

https://magenta.tensorflow.org/datasets/maestro#v200



Rewrite the META stock prediction code using LSTM, and give us your estimation for open price for july 17 2024.



Exercise 03 700

1. Convert CFAR10 to gray, then design and train a deep model to convert gray to color image!

Hints:

- Convert original images into gray images.
- Design an AE architecture model and train that.
- Show a gray and colorized space of an image (from the CFAR10 dataset)
- Colorize an image, out of the dataset.

