**INSTRUCTION MANUAL**

**SOFTWARE USED :**

* Jupyter Notebook
* Python 3.6
* Data Manipulation Packages :
  + Numpy
  + Pandas
* Deep Learning Package :
  + Keras
  + Tensorflow Version 1.15
  + gpt2simple
* Other Packages :
  + Matplotlib
  + OS

**HOSTED ON :**

* Google Colaboratory with GPU instance
* Models hosted on Google Drive

**Part 1 : LSTM Model**

**Step 1 :** Proceed to Unzip the Code Zip File.

**Step 2 :** Install the latest version of python from the python website <https://www.python.org/>.

**Step 3 :** Use Python Package Installer(PIP) to install the required Packages by running the following command in command prompt.

>> pip install -r requirements.txt

**Step 4 :** Open up Jupyter Notebook using the following command in command prompt.

**>>**jupyter notebook

**Step 5 :** Open the Notebook titled Generate\_Music.ipynb in the folder Complete\_Code

**Step 6 :** After opening the given ipython notebook, run all the code blocks using the SHIFT + ENTER keys.

**Part 2 : GPT2 Model**

**Step 1 :** Open the following Ipython Notebook using the link in colab.

<https://colab.research.google.com/drive/1bETLx3jgfdL0k6mBo0uMqWVT2DX5LAtW?usp=sharing>

**Step 2 :** Upload the GPT2 model in the Ipython Notebook backend using the following link.

<https://drive.google.com/file/d/1Qjn8q95ULaBCIFbva8kpz7h2Te9kOUy8/view?usp=sharing>

**Step 3 :** Unzip the GPT2 model using unzip command. Move the run1 folder to the checkpoints folder.

**Step 4 :** Run the first three cells to install and load the required packages.

**Step 5 :** Run the cells after the section titled “Loading Weights”.