**README**

The included folder contains the following components:

1. The .mat training data set obtained from GTZAN Genre Collection dataset.
2. The .m MATLAB code files
3. A test input “metallic\_song.mp3” which is given as an argument to a function.

In order to run the Music Classifier, the following steps must be performed in order:

1. Navigate to the directory where all the MATLAB code (.m) files are present. This directory can simple be loaded by opening any to the .m files given in MATLAB.
2. Loading the “training\_data.mat” file into the lab. This can be done by right-clicking onto the file and clicking on **Load** option.
3. The file “genre\_of.m” contains the function required to run the classifier. Open a command window and call the function “genre\_of” giving the argument as follows:

**genre\_of(mfcc\_cells,'songname.mp3',10)**

In the above example, mfcc\_cells in the name of the training data set used to for the problem, songname.mp3 is the name of the song which is to be classified (note that this must be single quotes) and ‘10’ is the number of nearest neighbours to be considered. This value can be varied.

1. Press enter to call the function. The appropriate classification will be printed in the command window.

**NOTE: In the files included, only a single test file has been included due to the large size of the input set.**