Mohamed Gharibi 7

1. First of all, we have to define two different categories so that later we can classify the audio to which category it belongs. Here we defined two categories: laugh and cry.

2. After that, the audio classification was done by weka feature extraction

```
===== Evaluating on filtered (training) dataset =====

Correctly Classified Instances           8               57.1429 %
Incorrectly Classified Instances         6               42.8571 %
Kappa statistic                          0
Mean absolute error                      0.4945
Root mean squared error                  0.5336
Relative absolute error                100      %
Root relative squared error            106.9196 %
Total Number of Instances               14

=== Detailed Accuracy By Class ===

               TP Rate   FP Rate   Precision   Recall  F-Measure   ROC Area  Class
                 0         0          0         0         0          0.417    cry
                 1         1          0.571     1         0.727      0.417    laugh
Weighted Avg.    0.571     0.571      0.327     0.571     0.416      0.417

========= Confusion Matrix =========
0.0  6.0
0.0  8.0
@relation AudioSamples

@attribute Zero_Crossings numeric
@attribute LPC numeric
@attribute class {cry,laugh}

@data
5020,-0.986652,?
===== Classified instance =====
Class predicted: laugh
```

3. After the testing data has been classified, the result will be sent to the smart phone.

Thanks for Ting Xia for the help