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| **Speech Classification**  MCA Homework 2 Report  **ㅡ**  **Nishtha Singhal**  2017302  20/3/20 | horizontal lineQuestion 3 - SVM Training Result on MFCC: precision recall f1-score support 0 0.52 0.64 0.57 239 1 0.40 0.47 0.43 209 2 0.33 0.35 0.34 214 3 0.49 0.53 0.51 225 4 0.61 0.57 0.59 261 5 0.47 0.49 0.48 224 6 0.75 0.69 0.72 245 7 0.53 0.47 0.50 240 8 0.62 0.54 0.58 226 9 0.39 0.33 0.36 215 accuracy 0.51 2298 macro avg 0.51 0.51 0.51 2298weighted avg 0.52 0.51 0.51 2298 Question 3 - SVM Training Result on spectrogram: precision recall f1-score support 0 0.62 0.36 0.46 239 1 0.40 0.54 0.46 209 2 0.35 0.44 0.39 214 3 0.47 0.25 0.33 225 4 0.72 0.52 0.60 261 5 0.61 0.48 0.54 224 6 0.32 0.83 0.47 245 7 0.68 0.41 0.51 240 8 0.49 0.50 0.49 226 9 0.65 0.35 0.45 215 accuracy 0.47 2298 macro avg 0.53 0.47 0.47 2298weighted avg 0.53 0.47 0.47 2298Question 1 - Spectrogram plots        Question 2 - MFCC plots |

Sources:

<https://fairyonice.github.io/implement-the-spectrogram-from-scratch-in-python.html>

<https://haythamfayek.com/2016/04/21/speech-processing-for-machine-learning.html>