

CS5542 Big Data Apps and Analytics

LAB ASSIGNMENT #10

Lab Submission (a pair of students) before 4/12 (T) 11:59 PM.

Submit a short lab report including screenshots and source code & data to GitHub. Post your GitHub URL through Lab 10 form at <http://goo.gl/forms/zPZXzBG2aq>

Audio Classification and Smart Phone Notification

Extend your lab 7, 8, 9 work for a complete workflow integrating the following features

- 1) Audio collection based on the tags (related to your project)
 - a. Training Datasets (audio data from smart devices or online sound repositories such as <https://www.freesound.org/>)
 - b. Testing Datasets (audio data from smart devices)
- 2) Audio Classification based on the categories related to your project
- 3) Notification to smartphone/smartwatch
- 4) Bonus points:
 - Music Recommendation system (related to your own project)
 - a. make a recommendation based on user profile (e.g., preferences, location, gender, age)
 - b. Recommendation through smartphone/smartwatch using your ML application

Expected WorkFlow:

Twitter Data => Categories (Based on your project).

[Note: Add an additional category other to handle upcoming new data which doesn't belong to any of given categories]

