



Audio Sensing Lab

EE382V Activity Sensing and Recognition

UT Austin • Dept. Electrical and Computer Engineering • Fall 2016

Today

Audio Sensing Lab **(with your project team)**

Any Questions?

Build and evaluate a classifier capable of distinguishing 3 audio “scenes”

Data

Three audio files: [coffee.wav](#), [kitchen.wav](#), [soccer.wav](#)

Under Canvas: Files > Audio Sensing Lab

librosa demo jupyter notebook also available

Feature Extraction

Use [Yaafe](#) or [librosa](#)

Which features? [You decide!](#)

Build and evaluate a classifier capable of distinguishing 3 audio “scenes”

Build Classifier

Use [scikit-learn](#) and what you learned in previous classes

Which classifier? [You decide!](#)

Evaluation Phase

Choose an evaluation technique. We discussed several

Think about how the evaluation you choose affects how you work with the data in previous steps

Build and evaluate a classifier capable of distinguishing 3 audio “scenes”

Test Phase

We will see how your classifier performs with 3 new files

I will upload these files to Canvas over the weekend

Next week we will have a discussion in class

Every team will have to report on their approach, choices made

How did the classifier perform with the new files

Next Week

Tuesday

Finish up audio sensing lab activity

Symbolic representations

Project Progress Report Due

Thursday

Activity recognition with existing data and human computation

Panel of Experts