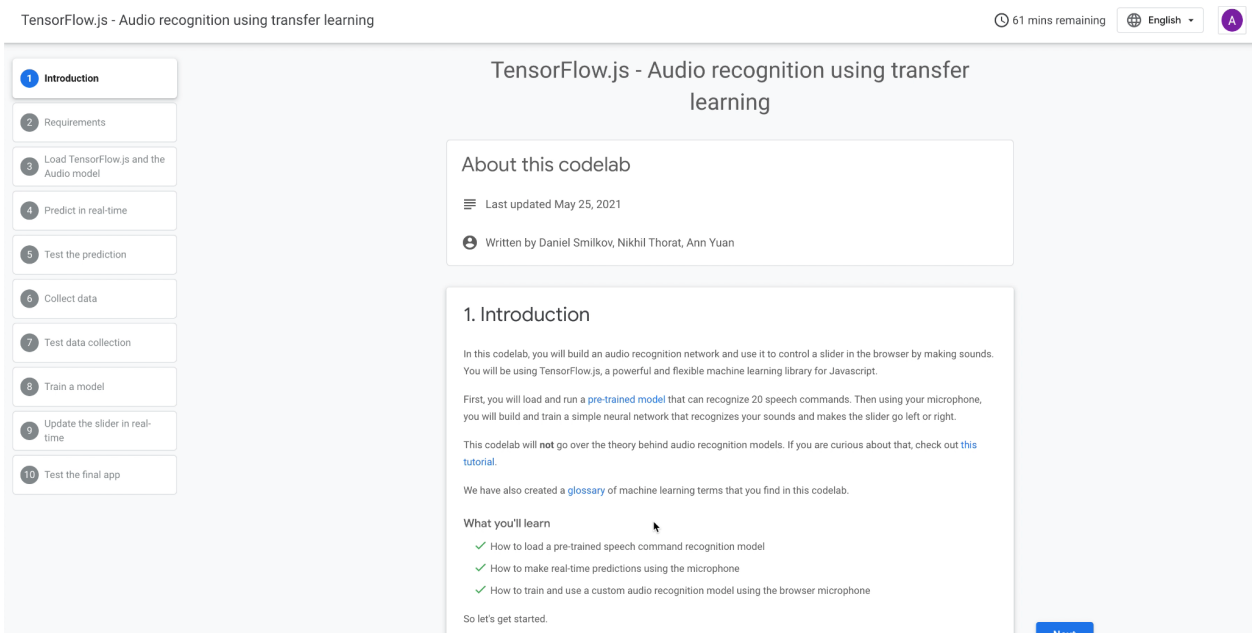
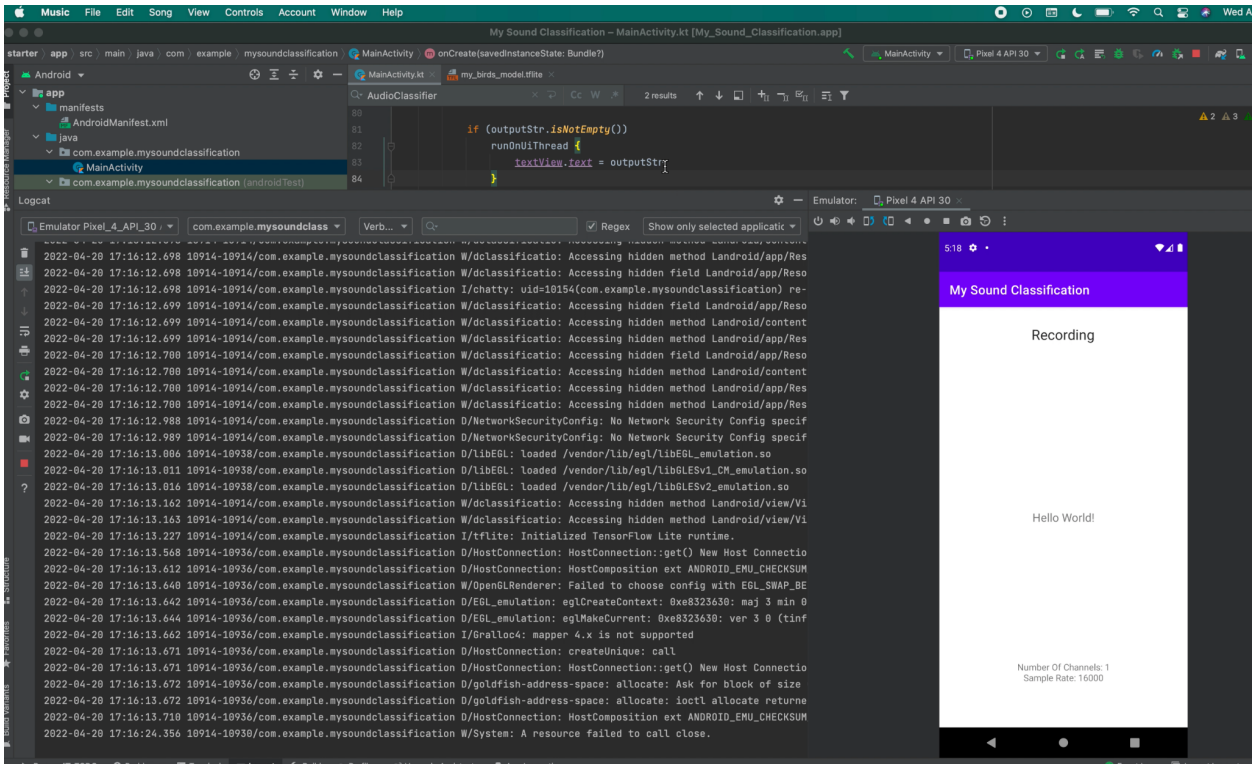
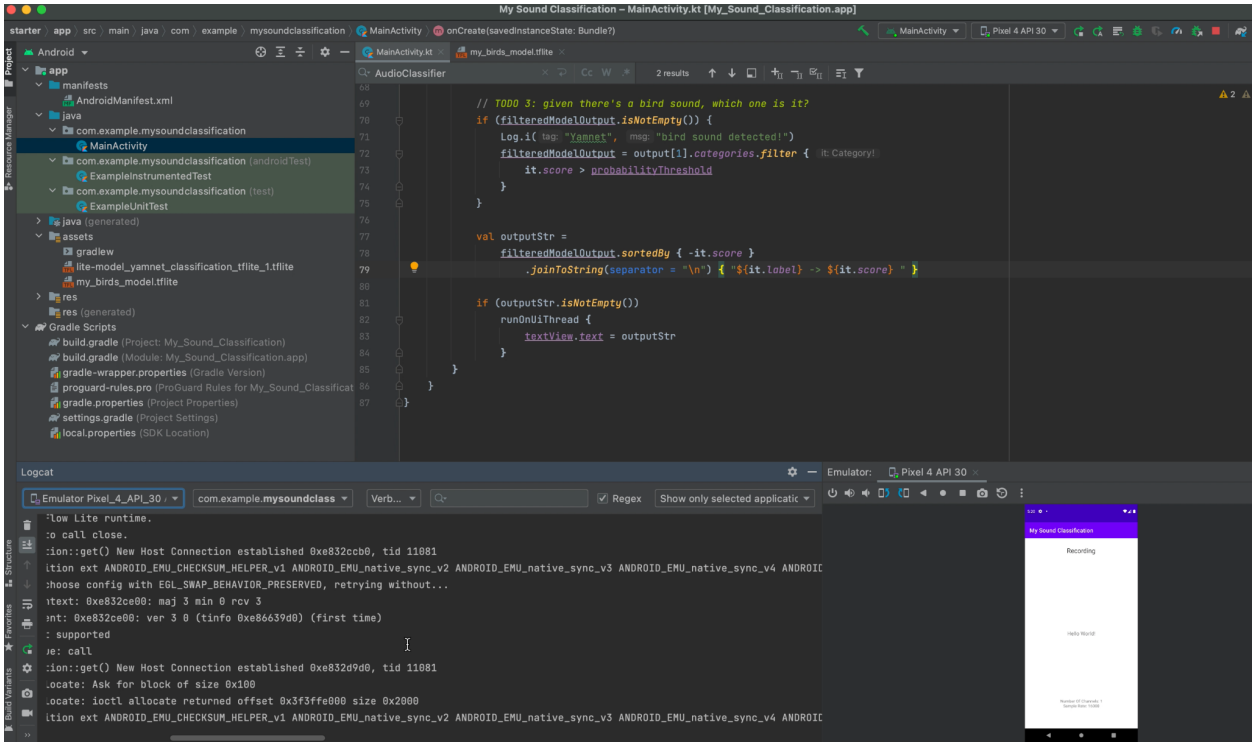
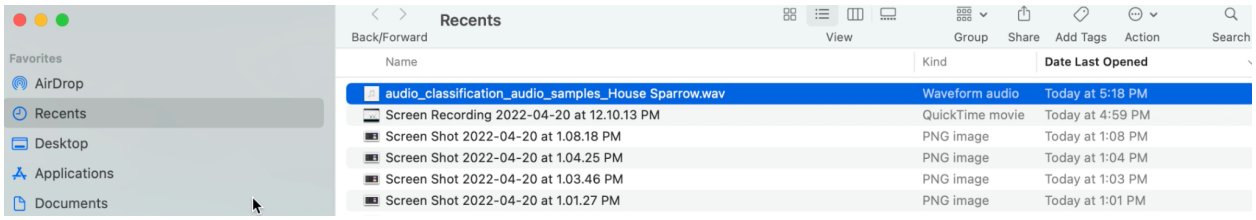
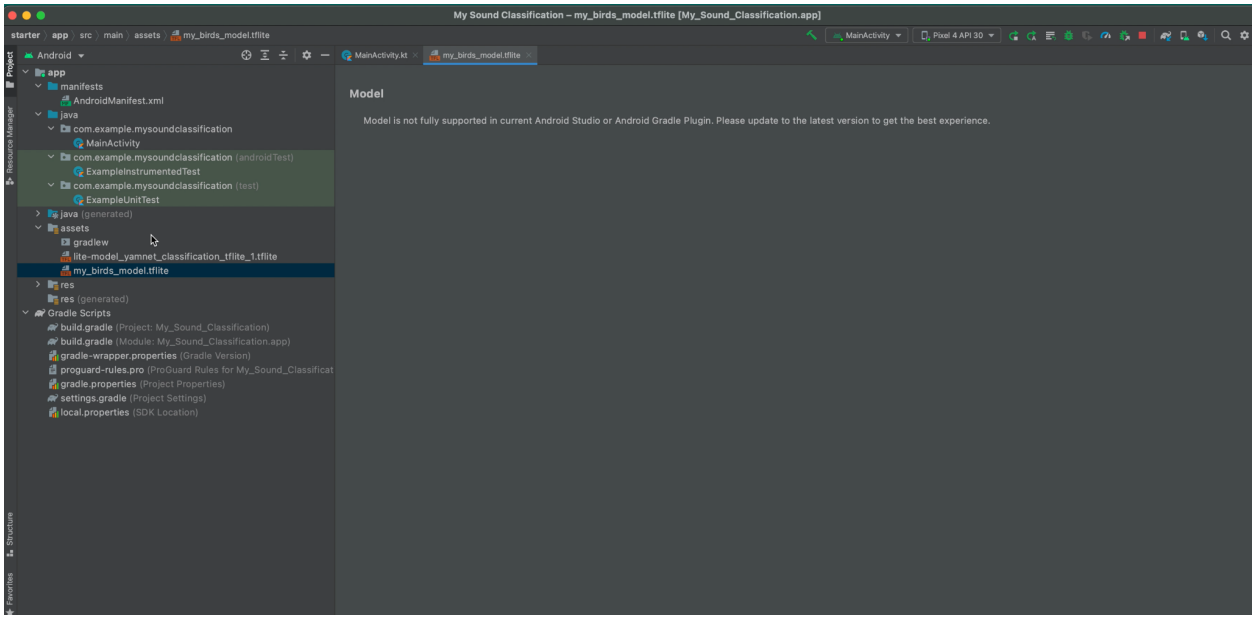
Mobile app and audio training on device : Build a custom pre-trained Audio Classification model






My Sound Classification – MainActivity.kt [My_Sound_Classification.app]
// TODO 3: given there's a bird sound, which one is it?
if (filteredModelOutput.isNotEmpty()) {
Log.i(tag: "Yamnet", msg: "bird sound detected!")
filteredModelOutput = output[1].categories.filter {
it.score > probabilityThreshold
}
}
val outputStr =
filteredModelOutput.sortedBy { -it.score }
.joinToString(separator = "\n") { "${it.label} -> ${it.score} " }
if (outputStr.isNotEmpty())
runOnUiThread {
textView.text = outputStr
}
Logcat
Emulator: Pixel 4 API 30


Recents
Back/Forward
View
Group
Share
Add Tags
Action
Search
Favorites
AirDrop
Recents
Desktop
Applications
Documents
Name
Kind
Date Last Opened
audio_classification_audio_samples_House Sparrow.wav
Waveform audio
Today at 5:18 PM
Screen Recording 2022-04-20 at 12.10.13 PM
QuickTime movie
Today at 4:59 PM
Screen Shot 2022-04-20 at 1.08.18 PM
PNG image
Today at 1:08 PM
Screen Shot 2022-04-20 at 1.04.25 PM
PNG image
Today at 1:04 PM
Screen Shot 2022-04-20 at 1.03.46 PM
PNG image
Today at 1:03 PM
Screen Shot 2022-04-20 at 1.01.27 PM
PNG image
Today at 1:01 PM


My Sound Classification – my_birds_model.tflite [My_Sound_Classification.app]
Model
Model is not fully supported in current Android Studio or Android Gradle Plugin. Please update to the latest version to get the best experience.