

# MUS 470 Homework Assignment 2

## Machine Learning for Audio Basics

Fall 2022

In this assignment you are expected to write a brief explanation of terms used in machine learning for audio. Give answers for the following questions by reading online and then stating in your own words. After each answer give a reference (website url, book chapter, article, etc.) for where you got the information. You may also put the references at the end and just give the number of the reference after the answer if you prefer.

1. What is a neural network (NN)? (In simplest terms)
2. What is an activation function for a NN?
3. How can an NN be described as a function, and what is its domain and range?
4. What does it mean for an NN to learn a parameter?
5. What makes a NN a CNN, or Convolutional NN?
6. Name some *features* of an audio file which could be detected by a NN.