



Microsoft: DAT210x Programming with Python for Data Science

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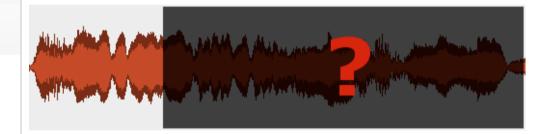
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Lab 10

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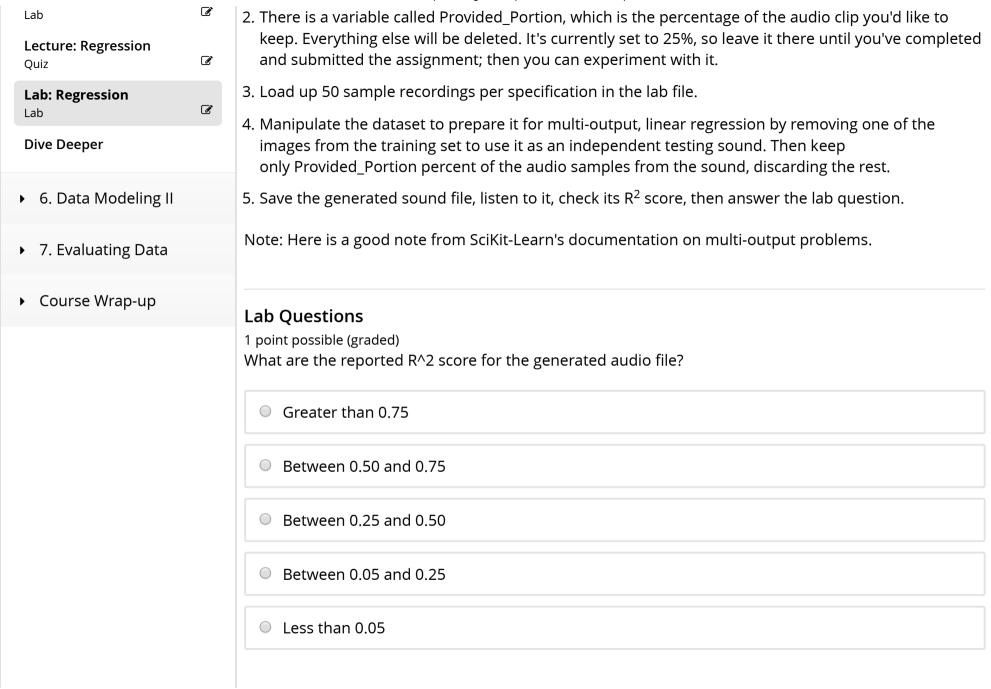
Lab Assignment 10

Enhance! You've probably seen a movie or TV show where the super spy agents use some unbelievable technique to enhance a pixelated image, or to recover some lossy data. In this lab, you're going to do something similar—this time your objective is to use linear regression to recover or 'fill out' a completely deleted portion of an audio file!



To complete this lab, you will be using The FSDD, Free-Spoken-Digits-Dataset, an audio dataset put together by Zohar Jackson once he noticed there weren't very many cleaned up audio (no dead-space, roughly same length, same bitrate, same samples-per-second rate, etc) audio libraries ready for machine learning.

1. Load up the started code stored at Module5/**assignment10.py**. Read through all of it, including the attached links. There are a lot of gems we'd like you to pick up that are only covered in the labs and not covered in detail in the course reading material, so be sure to make the most of it.



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