AudioAl

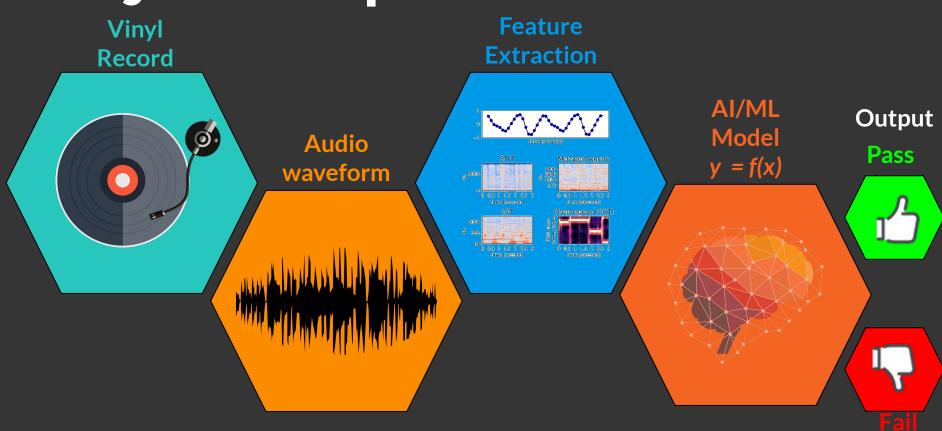
AudioAl Workshop Project

Build an AI/ML model to detect quality control (QC) defects in Vinyl records The goal is to detect the following audio QC metrics

- Skips
- Jumps
- Sticks
- Intrusive background noise

The project will produce an Open Source ML Model that can classify a Vinyl record as Pass/Fail audio QC

Project Proposal



Project Unknowns

- Batch or Real-Time processing?
- Which audio features are relevant to QC metrics?
- What is the best Model Architecture?
- Binary classification output or logistic regression for each QC metric?

Project Roles

Team needed to complete the project



Data Domain Experts Scientists/Analyst

Audio QC and mastering experts with knowledge of audio signal processing, Vinyl record pressing & Vinyl QC Creates and maintains ML datasets, data visualization, data analysis, statistics, feature extraction & algorithms



Machine Learning Engineers

Develops and evaluates machine learning models using machine learning pipeline tool set such as Jupyter notebooks and coding in python using Tensorflow/Keras



Industry Partner

Provides industry subject matter expertise, beta testing product feedback and examples of audio QC pass/fail records to help build the project dataset