Paper 1 name: An Overview on Audio, Signal, Speech, & Language Processing for COVID-19

Paper link: <https://arxiv.org/pdf/2005.08579.pdf>

Date: 18 May 2020

Features: STFT, MFCC, MFB with CNN

Data set: Google audio set extracts from 1.8 million Youtube

Videos and Freesound audio Database

Accuracy: .946 AUC

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Paper 2 name: COVID-19 Cough Classification using Machine

Learning and Global Smartphone Recordings

Paper link: <https://arxiv.org/pdf/2012.01926.pdf>

Date: 14 Jun 2021

Classification:

1. Logistic regression (LR).
2. Multilayer perceptron (MLP).
3. K-nearest neighbour (KNN).
4. Long short-term memory (LSTM).

Features: MFCC, CNN

Data set:

1-**The Coswara Dataset**: <https://coswara.iisc.ac.in> the collected audio data includes fast and slow breathing, deep and shallow coughing, phonation of sustained vowels and spoken digits. There are 1079 healthy and 92 COVID-19 positive subjects.

2- **The Sarcos Dataset:** <https://coughtest.online> there are 26 COVID-19 negative and 18 COVID-19 positive subjects

Accuracy: