Internal presentation wk8

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What have we done?

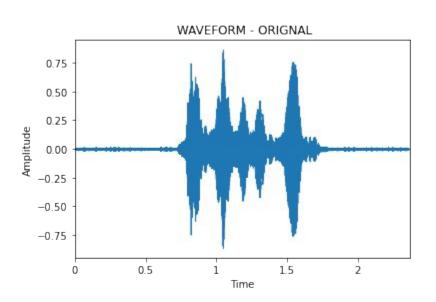
- Create different "simpler" models: SVM Logistic Regression MLP KNN
- Split datasets <u>physically</u> into train, test and validation
- Data cleaning
- Data augmentation
- Pair programming

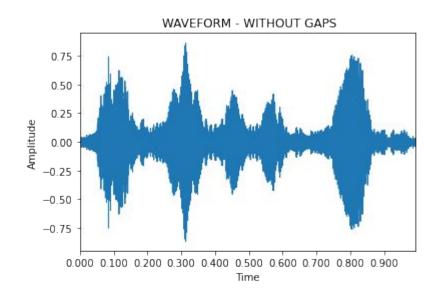


'Simpler' models results

ML model	RAVDESS Accuracy	CREMA-D Accuracy
MLP	Train: 99% Test: 77%	Train: 87% Test: 53%
SVM	Train: 70% Test: 65%	Train: 54% Test: 50%
Logistic Regression	Train: 71% Test: 63%	Train: 54% Test: 51%
KNN	Train: 100% Test: 78.2%	Train: 99.9% Test: 49.4%

Cleaning





Augmentation results

CRFMA-D

Size: 4461

Size: 1488

Size: 1493

Size: 35688

Size: 11904

Size: 11944

CREMA-D Augmented

train set | DONE PROCESSING DATA!!! | Duration: 13.571256

test set | DONE PROCESSING DATA!!! | Duration: 4.786889

validate set | DONE PROCESSING DATA!!! | Duration: 4.683996

train set | DONE PROCESSING DATA!!! | Duration: 131.957648

test set | DONE PROCESSING DATA!!! | Duration: 44.224786

validate set | DONE PROCESSING DATA!!! | Duration: 44.690555

RAVDESS

train set | DONE PROCESSING DATA!!! | Duration: 9.389215

Size: 1124

Size: 372

validate set | DONE PROCESSING DATA!!! | Duration: 3.329347

Size: 388

test set | DONE PROCESSING DATA!!! | Duration: 19.430340

test set | DONE PROCESSING DATA!!! | Duration: 3.258303

Size: 2976

validate set | DONE PROCESSING DATA!!! | Duration: 20.066517 Size: 3104

RAVDESS Augmented train set | DONE PROCESSING DATA!!! | Duration: 57.237242 Size: 8992

What were the challenges

• Lessons learned: Display results / issues only when you are sure.

What are we going to do this week?

- Learning Lab SVM
- Define a research proposal (main question & sub questions)
- Come up with an evaluation method (research)
- Evaluate ML models