Classifying Audio Clips with Teachable Machine Audio Model

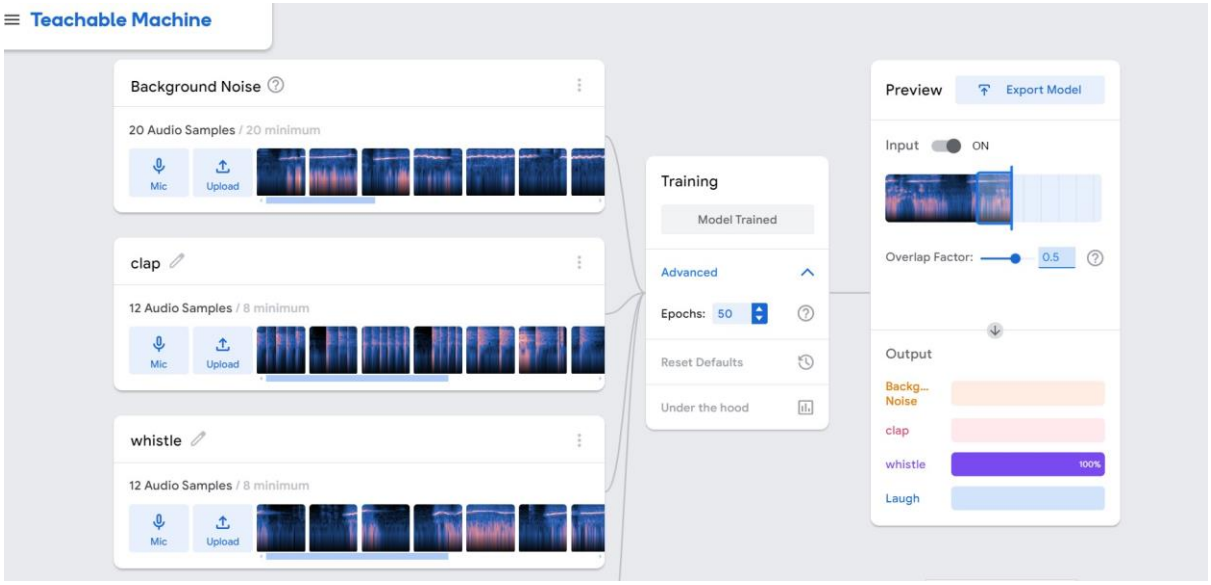
This project endeavors to harness the capabilities of Teachable Machine's Audio Model, a user-friendly platform that democratizes the development of machine learning models, to classify distinct audio patterns such as Laughing, Clapping, and Whistling. By training a model to recognize these specific sounds, we aim to explore the potential of audio classification in enhancing user experiences, from creating more engaging interactive applications to improving accessibility for those with disabilities.

Project Overview:

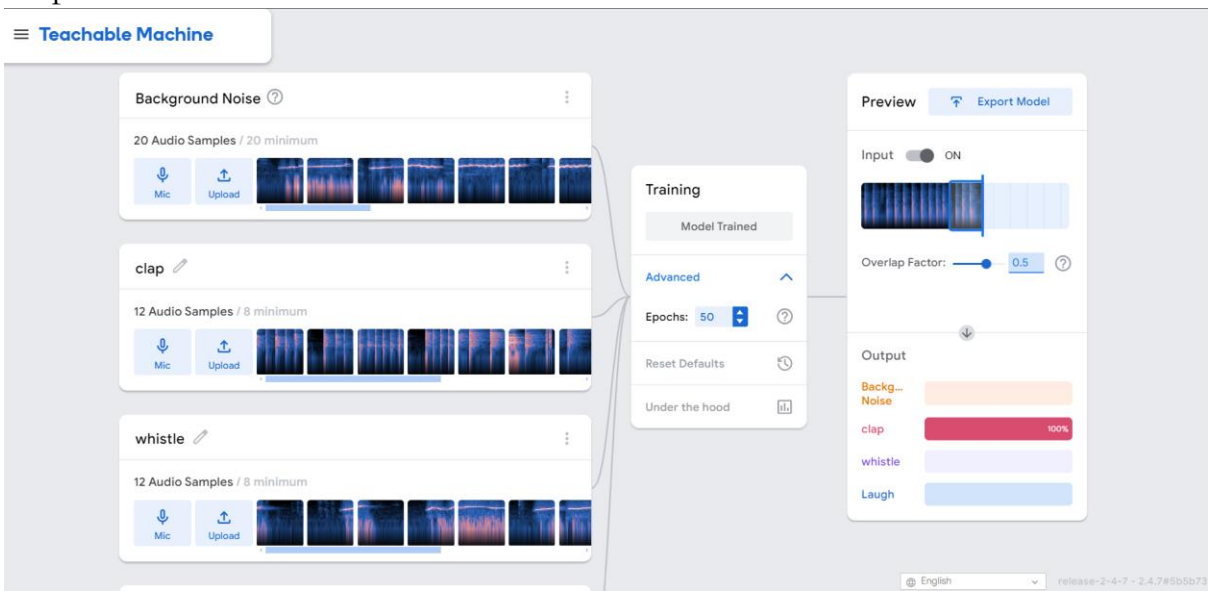
The primary goal of this project is to develop an audio classification system capable of accurately identifying and differentiating between the sounds of Laughing, Clapping, and Whistling. Utilizing the Teachable Machine Audio Model, this initiative is designed to showcase how easily accessible machine learning tools can be leveraged to create sophisticated sound recognition systems without the need for extensive coding knowledge or resources.

Project Link:
https://teachablemachine.withgoogle.com/models/Mm0OnAStA/

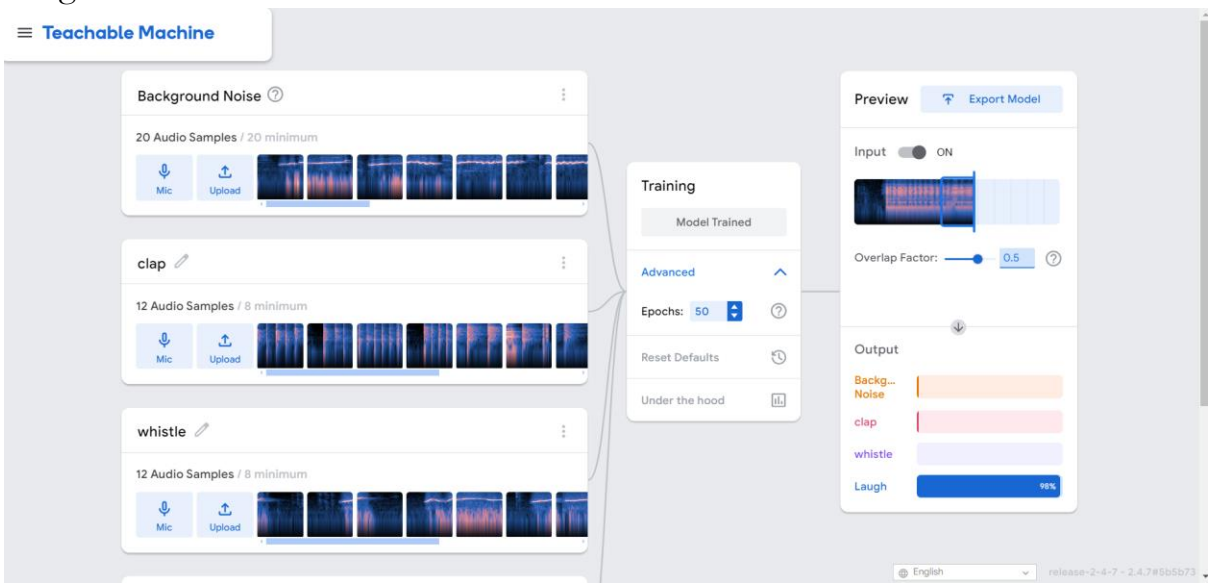
Whistle:



Clap:


Teachable Machine
Background Noise
20 Audio Samples / 20 minimum
Mic
Upload
clap
12 Audio Samples / 8 minimum
Mic
Upload
whistle
12 Audio Samples / 8 minimum
Mic
Upload
Training
Model Trained
Advanced
Epochs: 50
Reset Defaults
Under the hood
Preview
Export Model
Input
ON
Overlap Factor:
0.5
Output
Backg... Noise
clap
100%
whistle
Laugh
English
release-2-4-7 - 2.4.7#5b5b73

Laugh: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0.5
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Backg... Noise
clap
whistle
Laugh
98%
English
release-2-4-7 - 2.4.7#5b5b73