

Lab 1

Introduction:

Teachable Machine is a website tool developed by Google that allows users to easily create machine learning models without any coding knowledge. This tool is designed to make machine learning accessible to everyone, enabling users to train their own models using their own data. The tool supports three types of models: image, audio, and pose.

To train a model, users need to provide examples of different classes or categories. For example, if creating an image classification model, users can upload images of different objects and label them accordingly. The more examples provided for each class, the better the model's accuracy will be.

Once the training process is complete, Teachable Machine generates a custom machine learning model that can be used in various applications. Users can export their models as TensorFlow.js code for use in web applications or download them as TensorFlow Lite models for use on mobile devices.

In this report we will be using teachable machine to make ML image model for numbers 0,1,2.

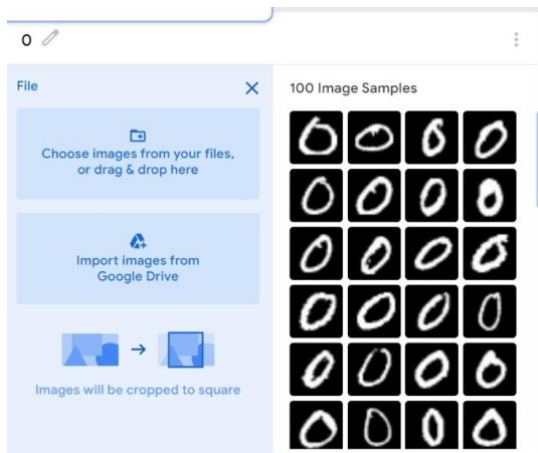


Figure 1: class 1 number 0

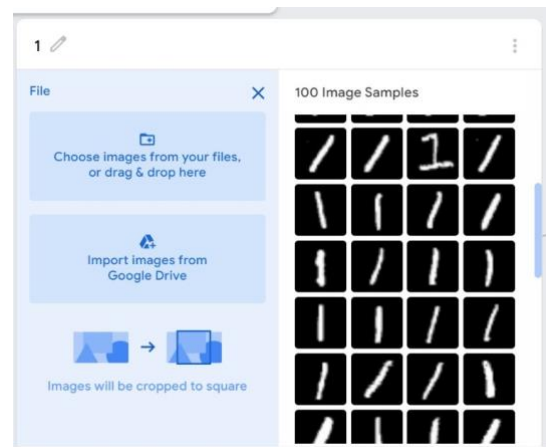


Figure 2: class 2 number 1

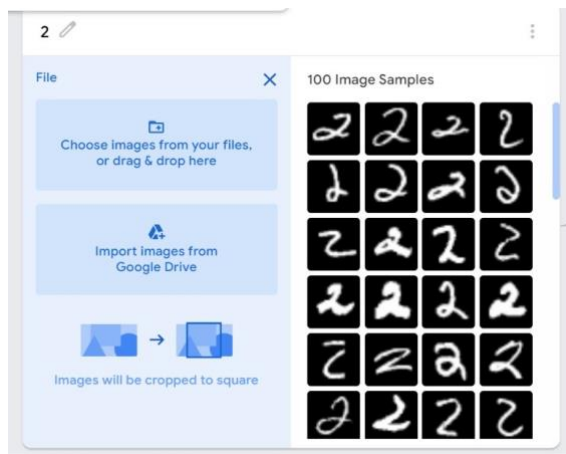


Figure 3: class 2 number 2

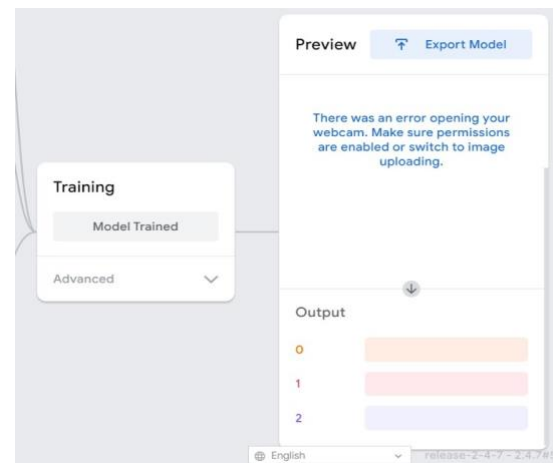
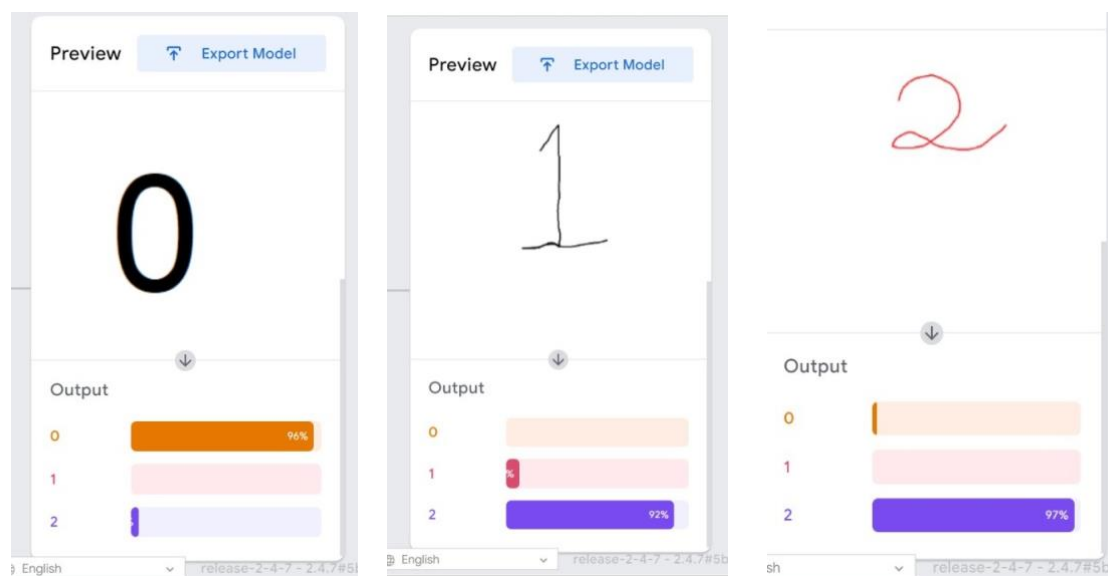


Figure 4: training

Results:



In conclusion, Teachable Machine is a user-friendly website tool that allows users to create machine learning models without coding. Beginners can explore machine learning and experiment with their own data using this simple and accessible tool.

The tool may not be appropriate for complex projects or advanced users due to its dependency on internet connection and limited functionality.

Team work:

Roaa Kelntan Section 2.

Elaf Alshantay Section 2.

Renad bakeet Section 1.