Artificial Intelligence and Machine Learning is valuable but is only as secure as it trained and used.

We need to use artificial intelligence and machine learning as another tool in our lives, but not rely upon it.

This demonstration uses a trained visual machine learning model that has been tampered with false images. Other machine learning model training data such as ChatGPT could also be tampered with. It is important to confirm the validity of the tools and information that we use.

In this case, the cupcakes are included with the fruits, and the toy car is included with the Bakugans.



→ C makecode.microbit.org/#editor To apply your updated settings to this site, reload this page osoft | omicro:bit rate of 9600 bits per second. The data received is stored in a variable serialData.

Figure 1. Micro:Bit Block Based Programming for Class Binary Output Control

■ 2 ± 40 %

- This code configures the USB port to data to be received from the AI visual application by the Micro:Bit at a data
- serialData is compared against the strings of Class 1, Class 2, and Class 3. If there is a match the 5x5 LED display is changed to a number and the a PIN is turned on (changed from a zero to a one).

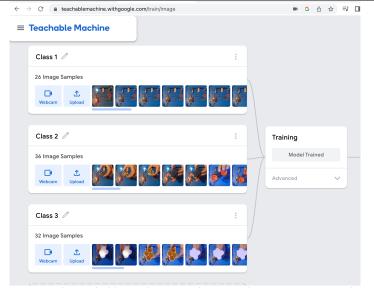


Figure 2. Using Google Teachable Machines on a laptop with a camera to train Class 1, the Snap circuit board, Class 2 the Bakugans, and Class 3 the Fruit.

- Teachable machines is used to create classes of images.
- The classes of images of a baseline of the SnapCircuit board, Bakugans, and Fruit. Class 2 and 3, Bakugans and Fruit have been hacked with additional imagery.
- The images are then used to "train" the machine using Tensorflow. Tensorflow is a free and open source library that everyone can use for machine learning and artificial intelligence. It was initially created in November of 2015.







IMAGE MODEL

This is a Recognition Project - where the Al will be able to identify the classes you made based on the input you give it!

