

## TRAIN MODEL ON IBM

Date	13 November 2022
Team ID	PNT2022TMID28097
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

Once a Data Set has been prepared, it can be used to train your deep-learning Model. Once trained, the Models can be deployed for use. Trained Models can be accessed from within an Inspection or directly from the **Models** tab.

Data Set preparation includes:

- Adding labels to images (to train Object Detection Models)  
OR
- Adding categories to images (to train Classification Models).

Once this is completed, the **Train Model** option is selected to commence training on the IBM Maximo Visual Inspection server.

### To Train a Model:

1. Specify a **Model Name**.
2. In the section **Train Model Using**, specify the appropriate **Model Type**, depending on whether you added labels (Object Detection) or categories (Classification) to the images. Even if an image has both labels and categories specified, it will train based on the type selected in this field.

If the selected Model Type supports CoreML (Image Classification with **GoogLeNet**, Object Detection with **Tiny Yolo v2** or **Yolo v3**) then the trained Model will be available for download on the device for on-device inferencing.

3. Click on **Advanced Settings** to tweak the model training hyper-parameters, including the iteration count. The default value for all the parameters are pre-selected, based on the Support CoreML model used.
4. Click **Done** after specifying all the parameters.