**Cheesy Identifier – Status Report Part 1**

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Currently we are working on gathering data from Google Images and setting up the environment for training the model. The classifier will consist of 12 classes, and each one is a different cheese type.



It has already been decided that deep learning method will be used, and this method is Convolutional Neural Network, because it is the most optimal for dealing with images. After learning how to setup a CNN, we will move on with the programming, training and testing. After all the deep learning part is programmed, we will also implement an User Interface to make it user-friendly. We have not decided what framework will be used yet, although it will most likely be Tkinter.

The database extraction is made by a PHP file that runs on a server online and extracts google search images from its image page result with a query passed on the PHP file, after extracting the images the PHP creates folders for every query made and put this folder into the Database main folder, that is used by the Server folder, which contains all the functionality related to the CNN model. It is worth mention that the PHP algorithm itself doesn’t directly relate to the project application functionality, it’s just a manner to ease the complexity on gathering enough related images for our model, that can effectively help on its accuracy. When the application is run, the database will already have its images. We decided that would be better just to add the extraction PHP algorithm within the application to highlight all our steps and how we build the database step by step.

We are using GitHub to share the advancements made on the project repository with the group members and other communications tools to work remotely on the project.