Constants.py- we defined a few constants and we just used them from this file

Dataload.py – we load data we have load data function we define the folders where to look for every picture in every folder we apply a treshhold to cut the things that arent blue in the image remove the information that isnt blue and does edge detection it calculates the information zone and calculates a square around the represented area .

We calculate a bounding box to get the image that only has the cell we want to check

Train.py- preparedata calls dataload.py divide the data 80% for training 10% validare 10% testing

Model() calls a function in network.py it constructs the model for the convolutional neural network

It defines layer by layer what the network is defined by block

A a convolutional layer is a set of filters which apply to the image

Network.py – we scramble the data with filters nad matrix and make them smaller we initially do it random we repeat this until we reach 4 values wich initially will be random we are trying to determine some values in order for them to stop being random and have accurate data.

Train.py- learns the correct weights in order to minimize prediction error for the network

Eval.py takes the testing images and calculates some mathematical values regarding accuracy.

Confusion matrix is a good way of checking the behavior of the neural network

Interface.py creates classes for oop

Utils.py