

All the input images produced the desired output images. No noise filtering was carried out for any of the output images. It is possible to make the output images more optimal by applying morphological operations and using connected component analysis.

Gaussian method seemed to produce optimal results without a lot of training data. Histogram method required about 15 test data samples while the Gaussian model required as little as 3 samples to produce the desired output.

The 'mouse_click.py' script allowed for easy collection of data. This script involved creating a simple gui in python using 'Tkinter' package that made it possible to create a dialog box to open images and select the data points by clicking at the required area.