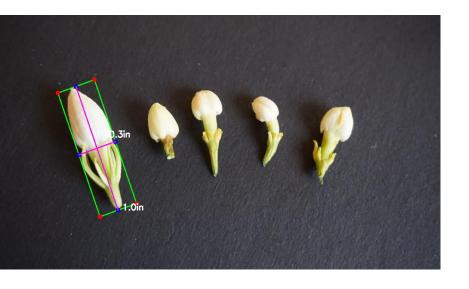
EXPORT QUALITY MOGRA CLASSIFICATION USING:

- 1. Calculating size of each Mogra bud using Contours and Euclidean Distance.
 - This method was implemented first for calculating size of entire bud.
 - Later changed it to calculate only size of bud(white portion)

2.Template matching

- -Simple template matching and Multiscale matching
- This method is not effective as for simple matching requires same size image always
- 3. Deep Learning using Tensorflow object-detection API
 - Specifically trained model to classify Mogra in two classes as mogra-gradel(export quality) mogra-gradell(not good quality)
 - -ssd_mobilenet model used.

1. Size of Mogra calculated:





size in ppm 0.29017757 0.95499999 Eucledian Distance 90.13878188 296.6546814

size in ppm 0.22474753 0.40773821 Eucledian Distance 69.81403871 126.65701717

Size of mogra bud(white portion) calcuated:



0.8in 0.7in

size in ppm 1.849554 0.955 Eucledian Distance 157.4579308 81.3019064

size in ppm 0.8351682 0.7199127 Eucledian Distance 71.100281 61.288253

3.Tensorflow Results:

This loss graph after training and loss obtained around 2 and 3. This loss can be reduced to close to 1 if added more dataset.

