Tea clone classification from images

1. Scanned images, 30 x 100, 80-20 train test split, classifier: multi layer CNN. Highly downsampled images used as input

https://www.evidentlyai.com/classification-metrics/multi-class-metrics

Accuracy is an average performance measure

For real-life application, worst case performance may be more important. For that, one has to look at precision and accuracy of individual clones

Accuracy: 87.62%

Classification Report:

	precision	recall	f1-score	support
0	0.98	0.67	0.79	66
1	0.80	0.75	0.77	80
2	0.85	0.66	0.74	88
3	0.83	0.77	0.80	83
4	0.67	0.96	0.79	67
5	1.00	0.97	0.99	75
6	1.00	0.96	0.98	69
7	0.96	1.00	0.98	66
8	0.99	0.96	0.97	92
9	0.97	0.89	0.93	75
10	0.91	0.98	0.94	85
11	0.99	0.95	0.97	86
12	1.00	0.97	0.99	71
13	0.92	0.99	0.95	68
14	0.58	0.85	0.69	81
15	0.99	1.00	0.99	88
16	0.83	0.83	0.83	94
17	0.97	0.97	0.97	77
18	0.97	0.92	0.95	85
19	0.73	0.88	0.80	85
20	0.80	0.56	0.66	78
21	0.97	0.88	0.92	83
22	0.85	0.80	0.82	84
23	0.88	0.96	0.92	94
24	0.73	0.82	0.77	88
25	0.70	0.66	0.68	65
26	0.98	0.77	0.87	71
27	0.84	0.96	0.90	76
28	0.93	0.92	0.92	84
29	0.96	0.99	0.97	96
accuracy			0.88	2400
macro avg	0.89	0.87	0.88	2400
weighted avg	0.89	0.88	0.88	2400

Confusion matrix from testing the trained classifier (test on 2400 images)