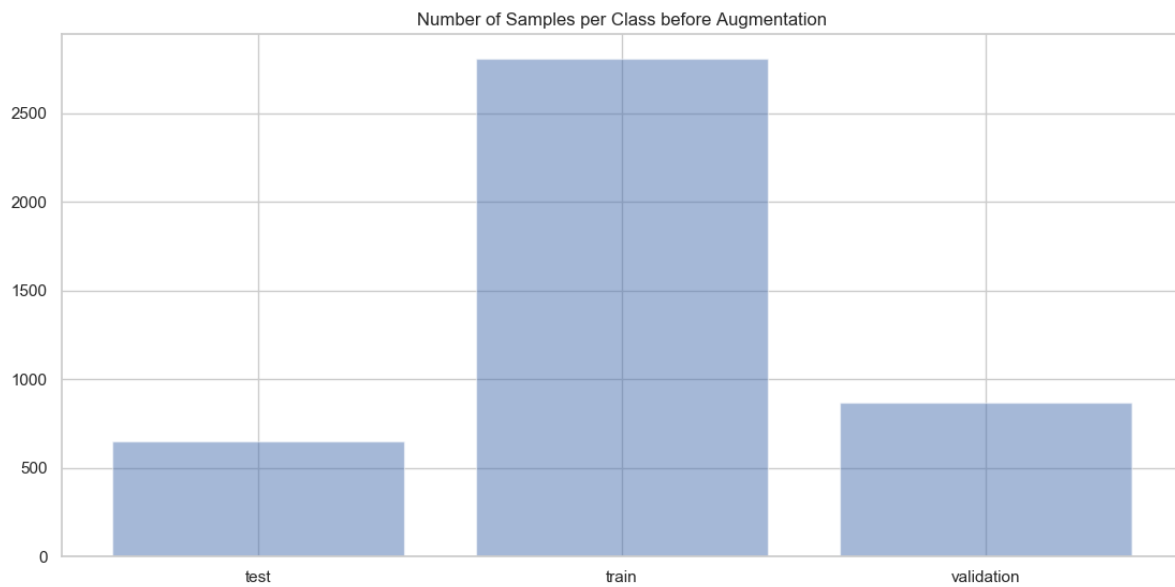
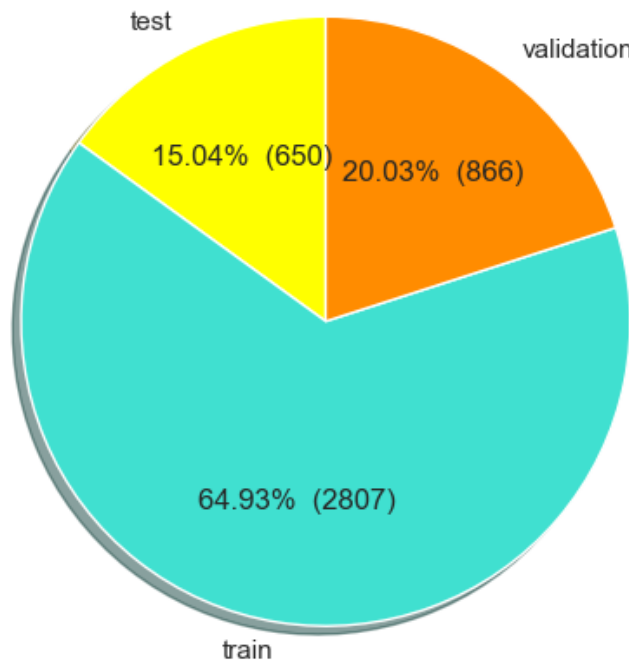
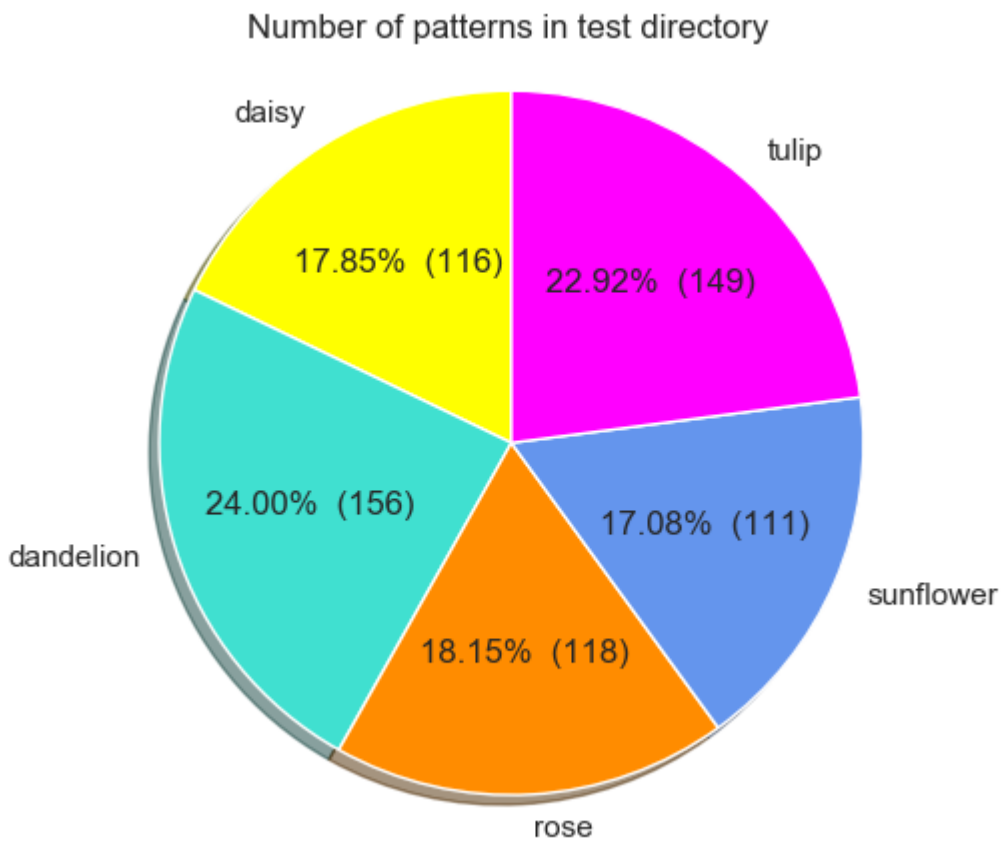
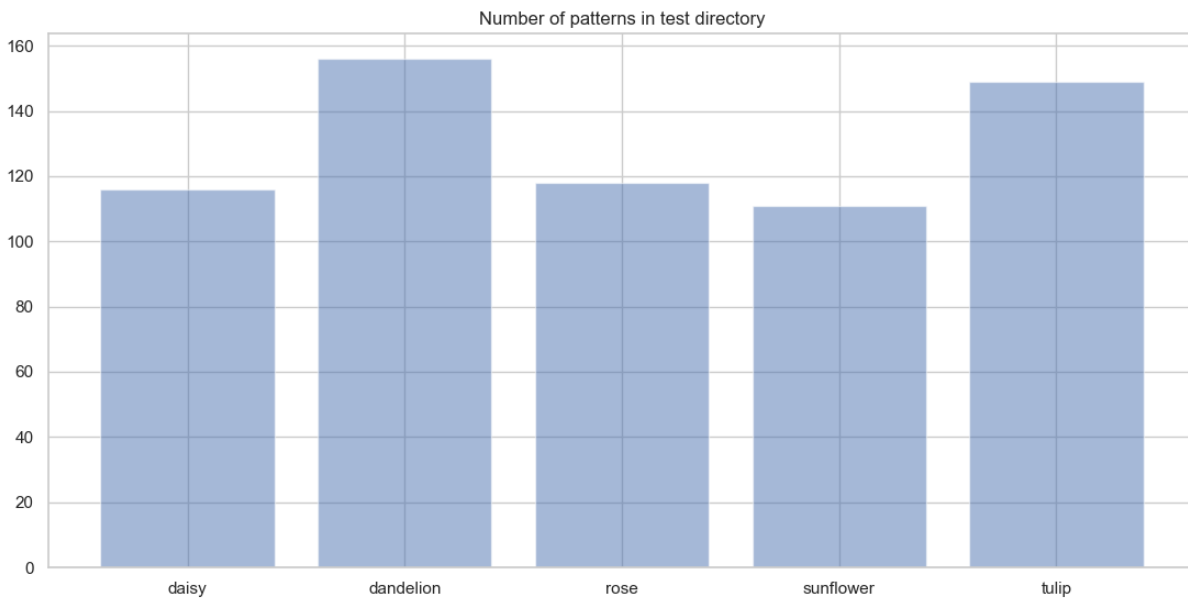


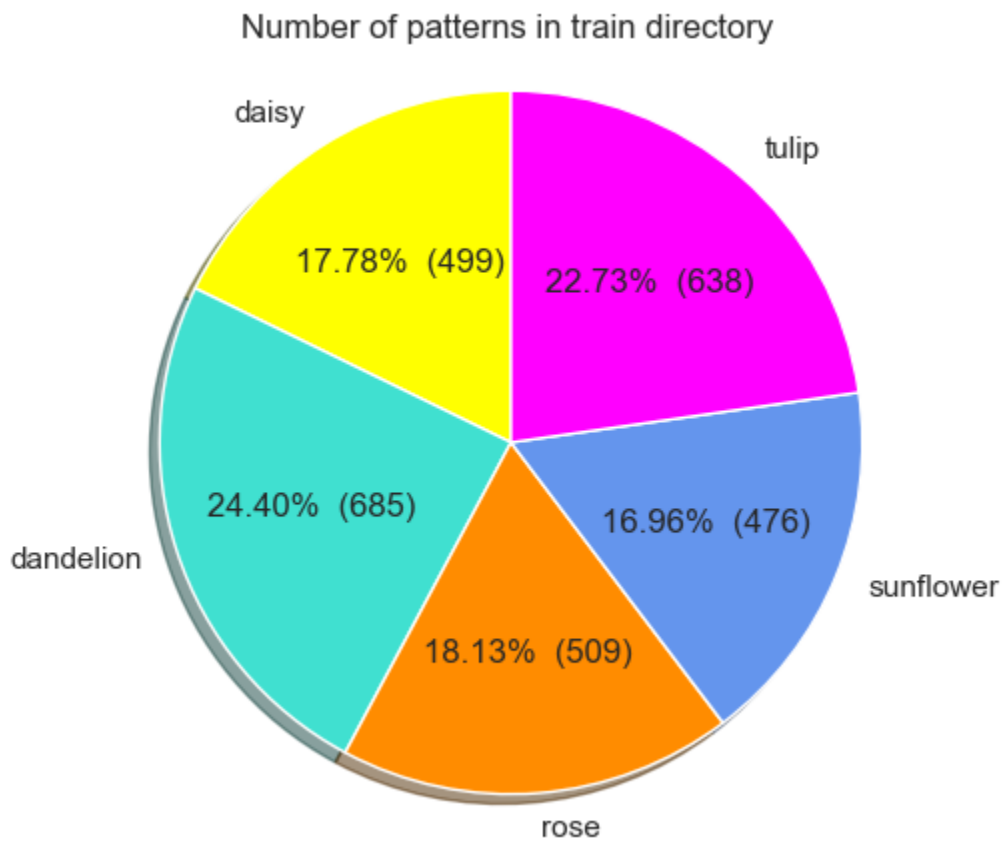
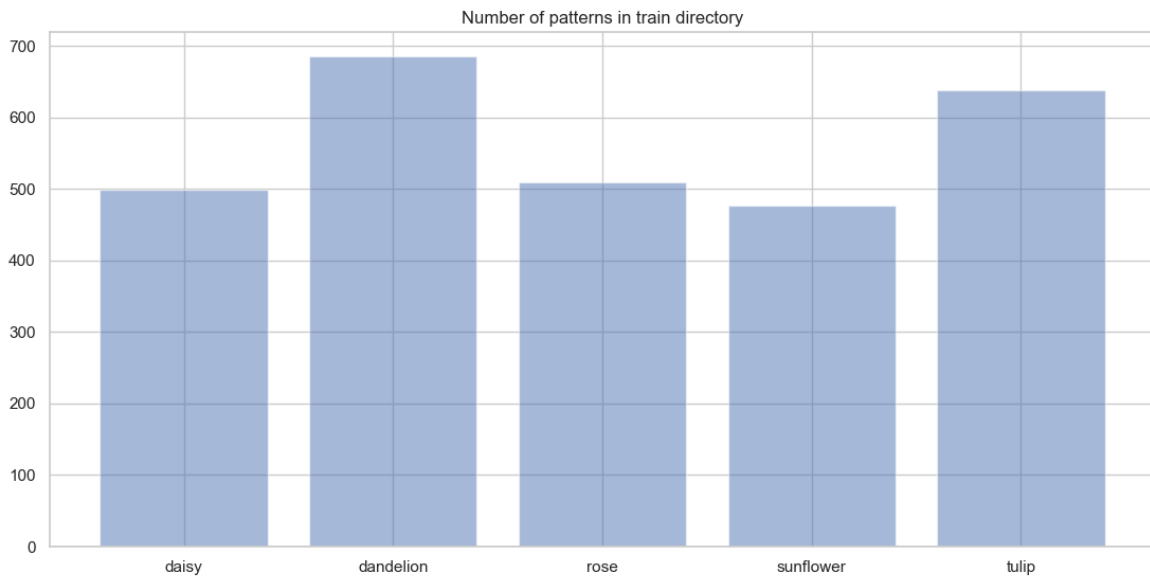
NEW SET DISTRIBUTION AUG-NORM

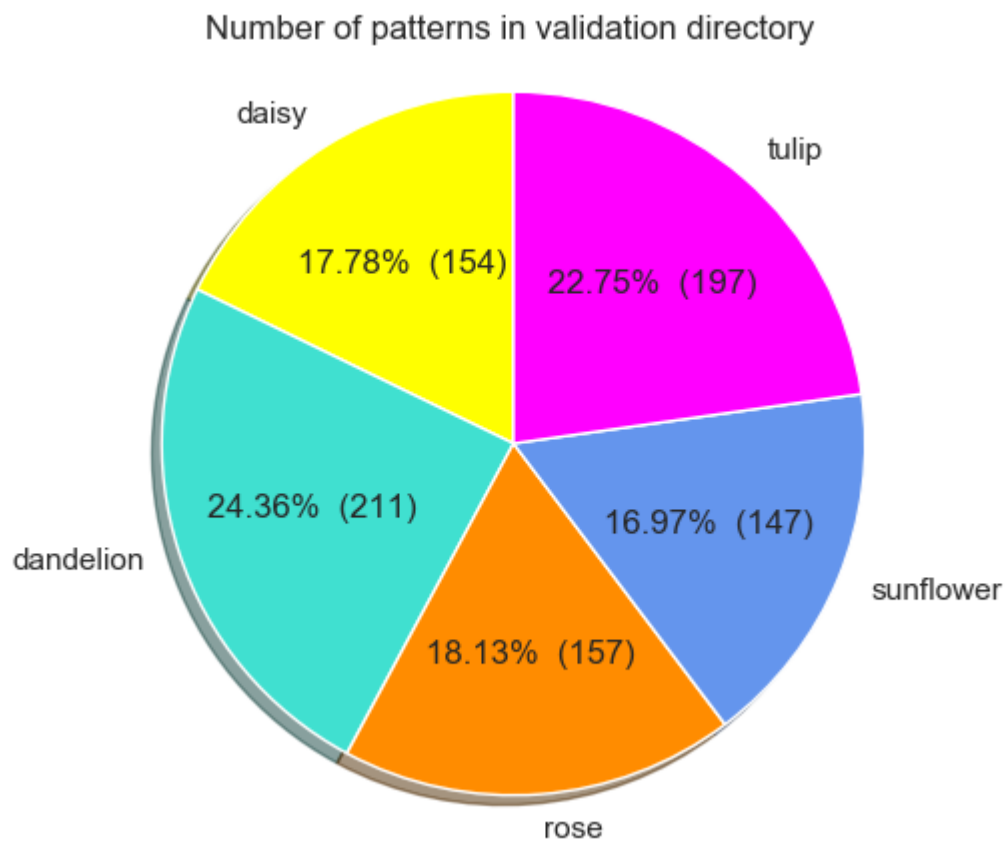
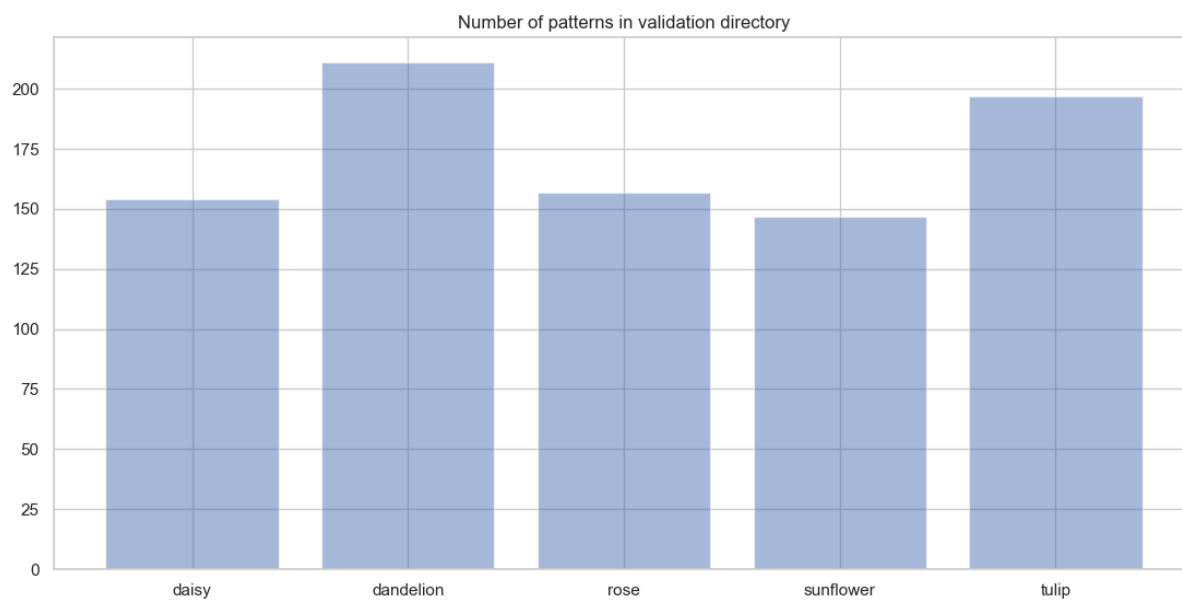


Number of Samples per Class before Augmentation

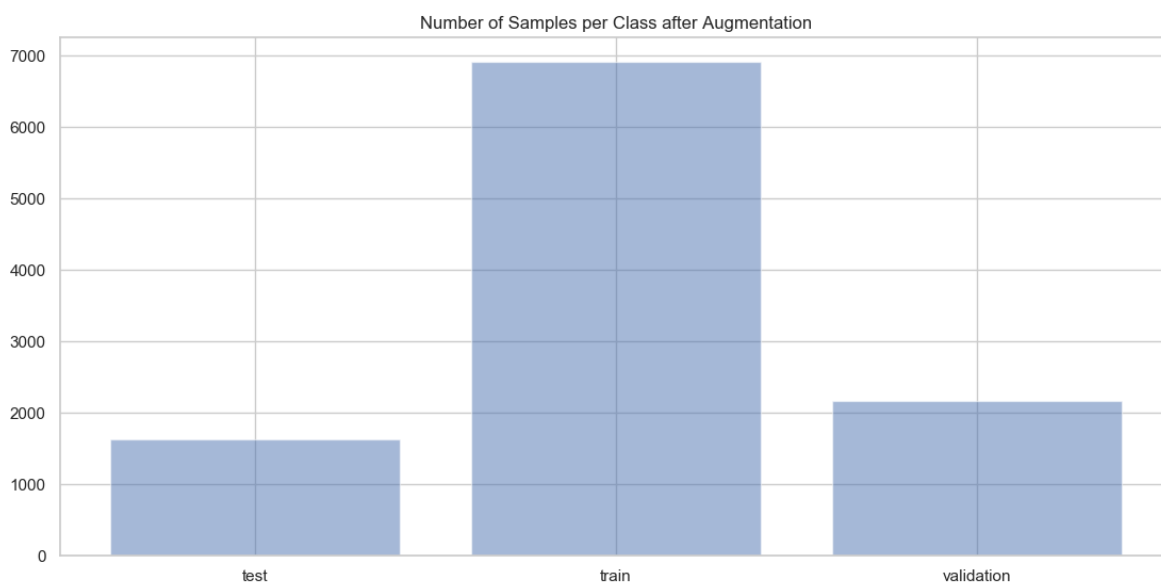




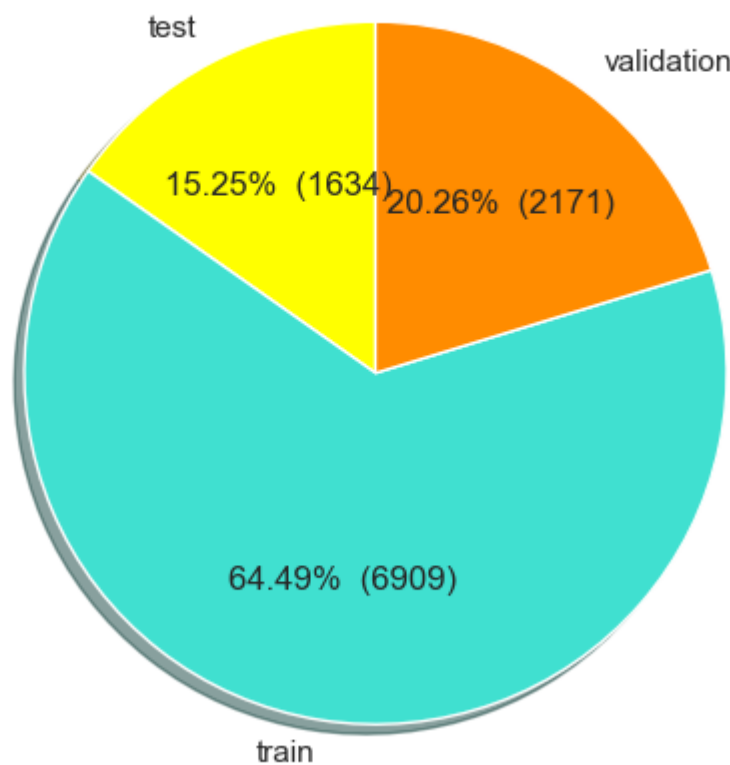


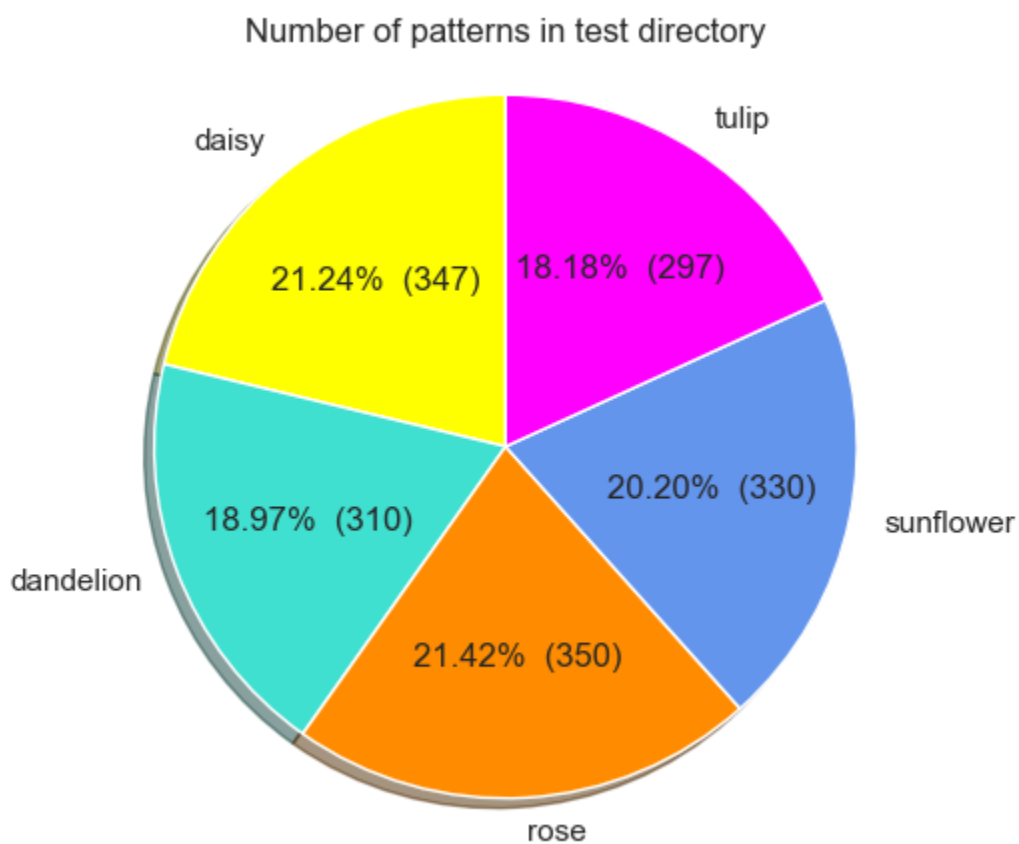
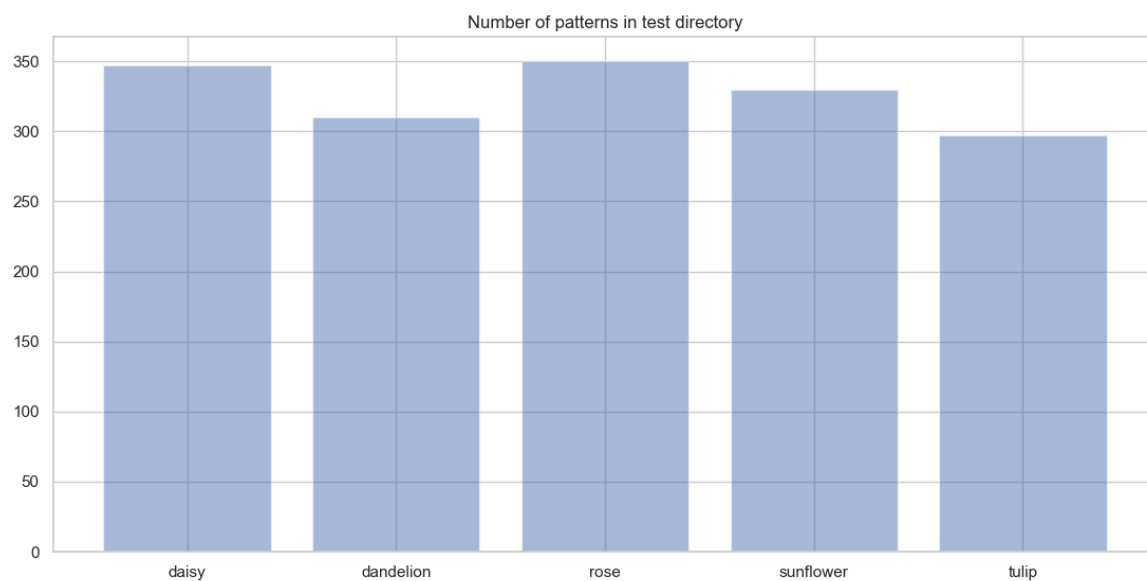


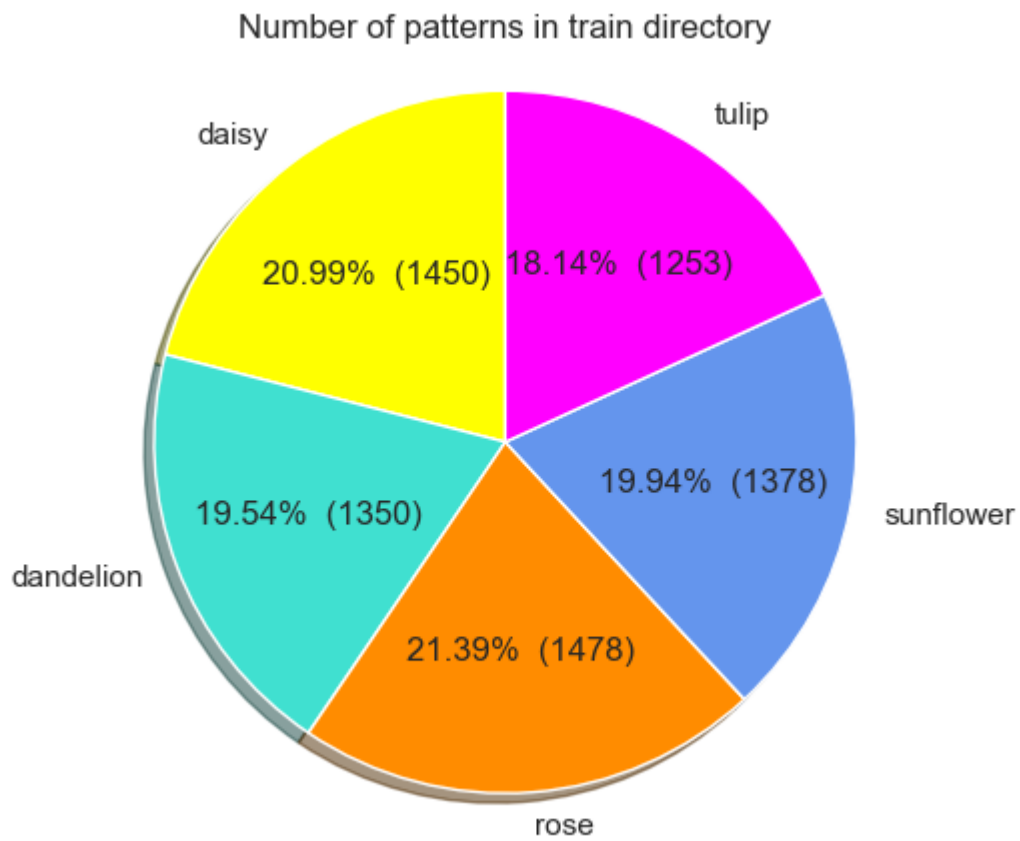
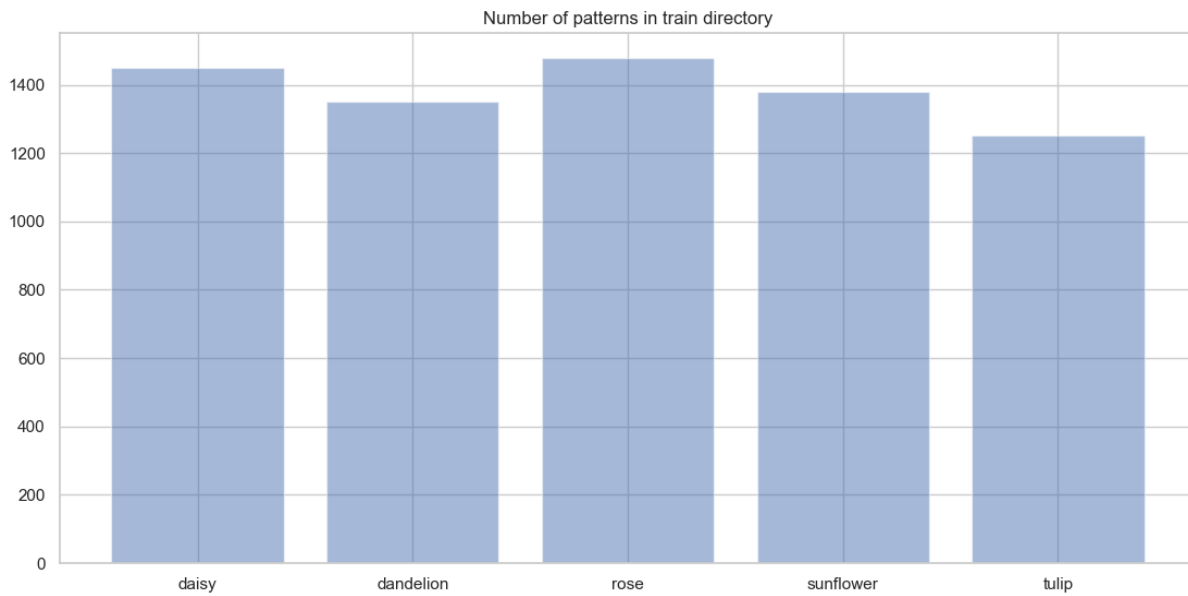
AFTER AUGMENTATION

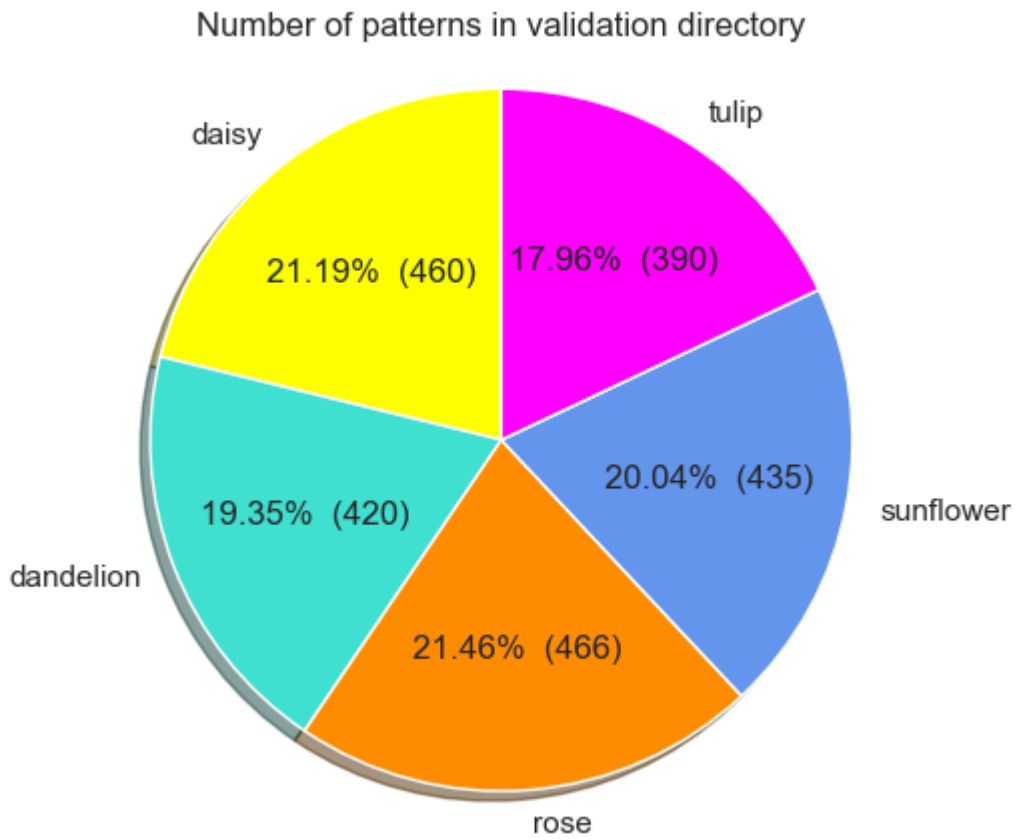
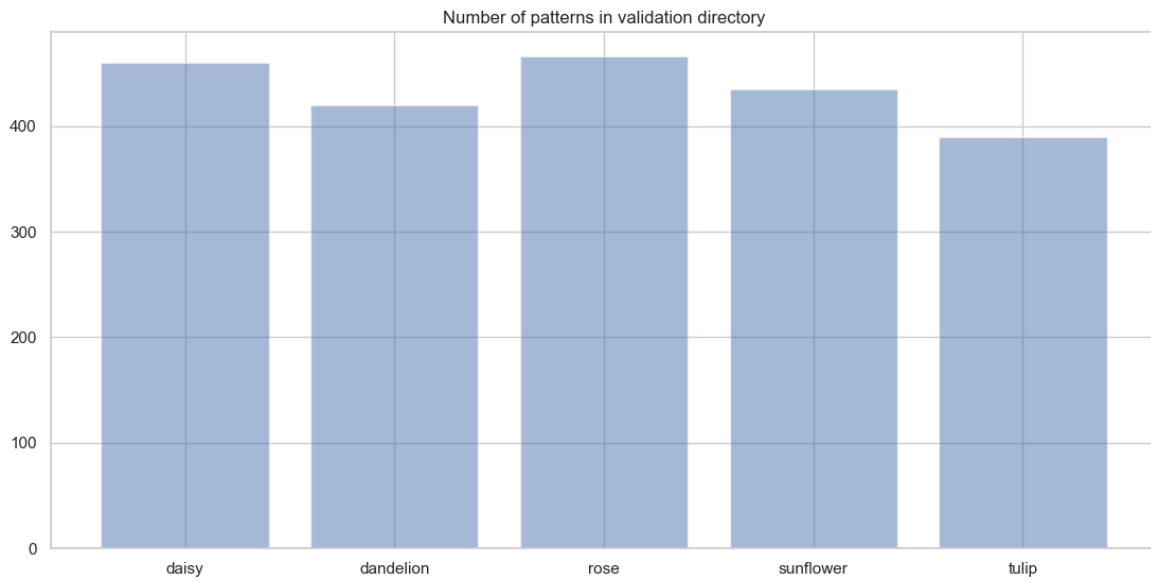


Number of Samples per Class after Augmentation





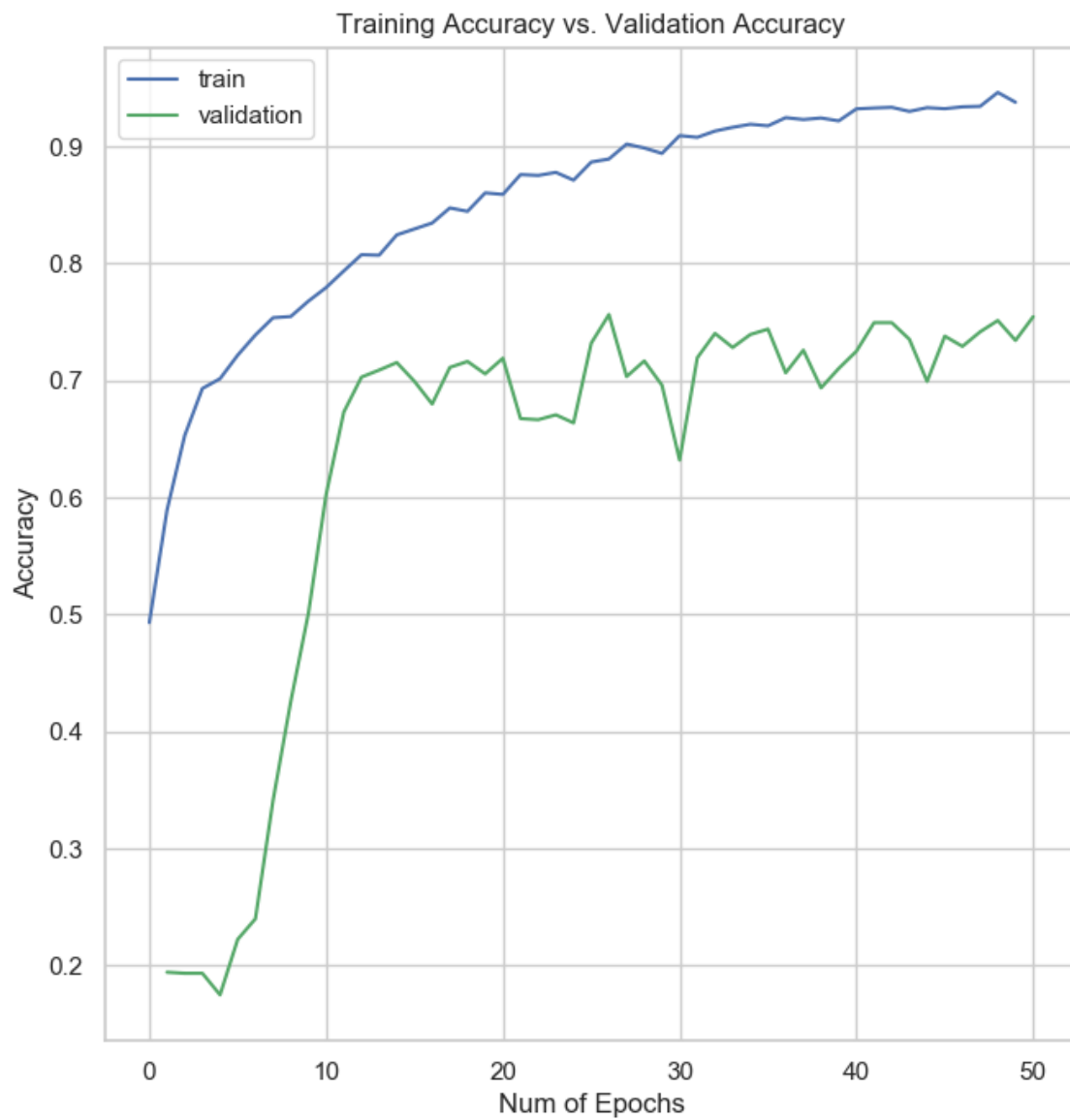


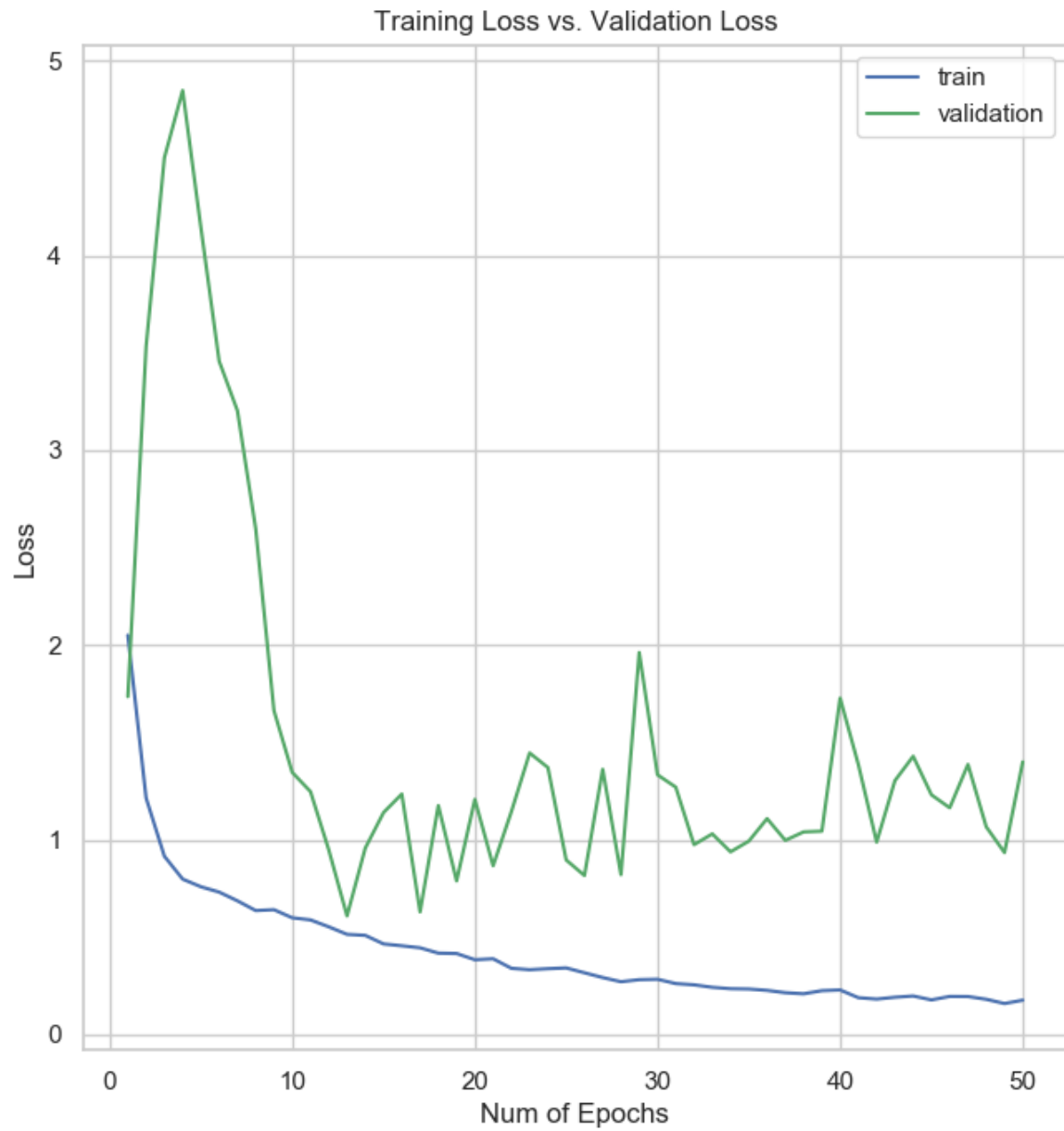


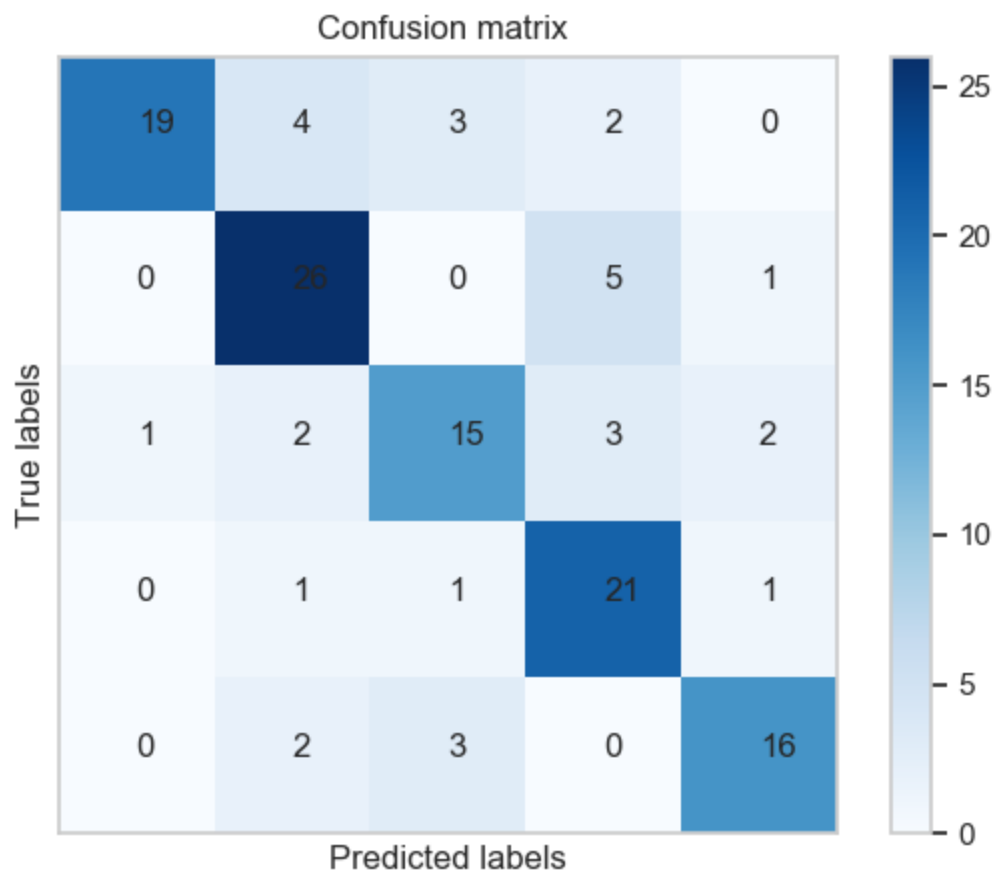
Layer (type)	Output Shape	Param #
=====		
conv2d_1 (Conv2D)	(None, 128, 128, 32)	2432
max_pooling2d_1 (MaxPooling2D)	(None, 64, 64, 32)	0
batch_normalization_1 (Batch Normalization)	(None, 64, 64, 32)	128
conv2d_2 (Conv2D)	(None, 64, 64, 64)	18496
max_pooling2d_2 (MaxPooling2D)	(None, 32, 32, 64)	0
batch_normalization_2 (Batch Normalization)	(None, 32, 32, 64)	256
conv2d_3 (Conv2D)	(None, 32, 32, 96)	55392
max_pooling2d_3 (MaxPooling2D)	(None, 16, 16, 96)	0
batch_normalization_3 (Batch Normalization)	(None, 16, 16, 96)	384
conv2d_4 (Conv2D)	(None, 16, 16, 96)	83040
max_pooling2d_4 (MaxPooling2D)	(None, 8, 8, 96)	0
batch_normalization_4 (Batch Normalization)	(None, 8, 8, 96)	384
flatten_1 (Flatten)	(None, 6144)	0
dropout_1 (Dropout)	(None, 6144)	0
dense_1 (Dense)	(None, 512)	3146240
activation_1 (Activation)	(None, 512)	0
dense_2 (Dense)	(None, 5)	2565
=====		
Total params: 3,309,317		
Trainable params: 3,308,741		
Non-trainable params: 576		

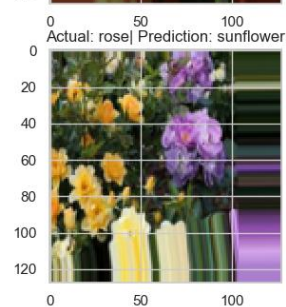
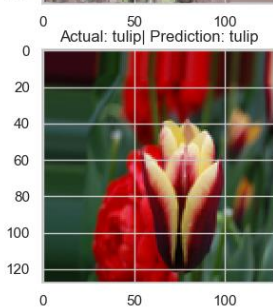
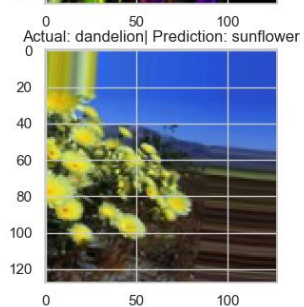
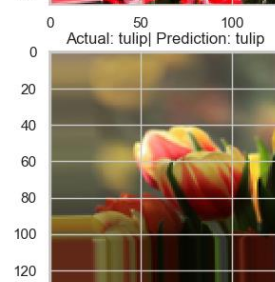
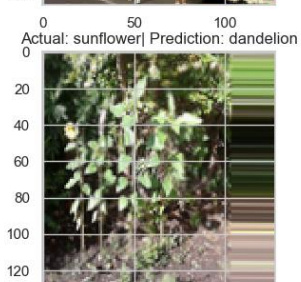
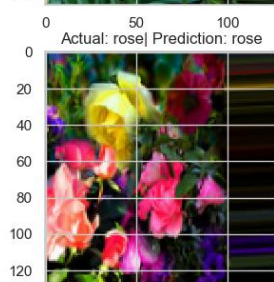
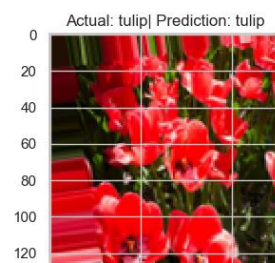
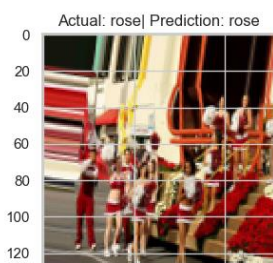
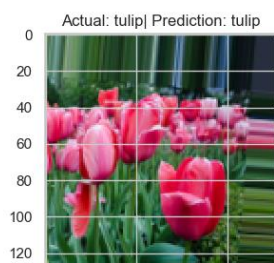
RESULTS

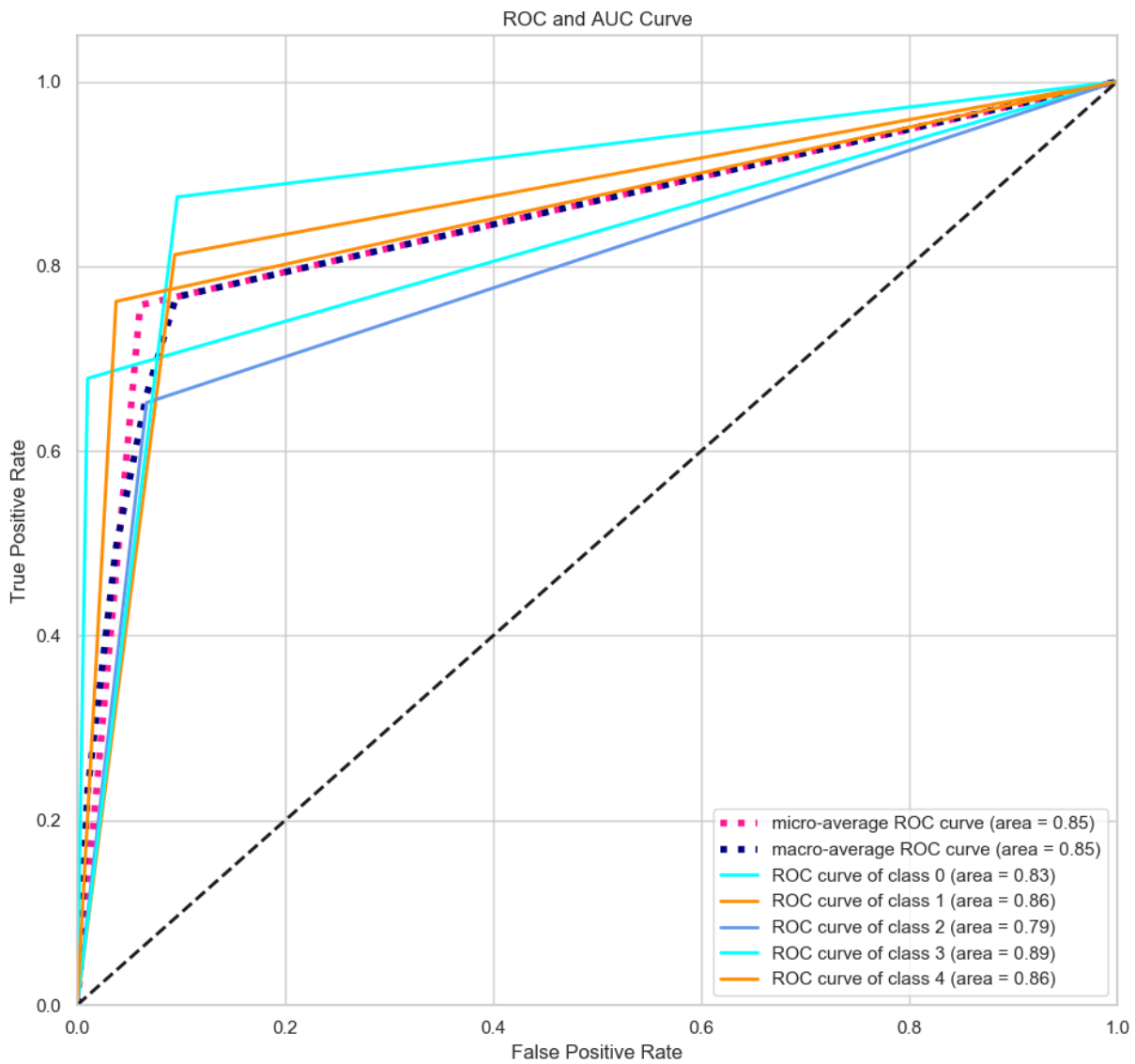
acc	val_acc	loss	val_loss				
0.493	0.194	2.05	1.74				
0.589	0.193	1.21	3.53				
0.653	0.193	0.916	4.5				
0.693	0.175	0.799	4.85				
0.702	0.222	0.759	4.14				
0.722	0.24	0.732	3.46				
0.739	0.341	0.687	3.2				
0.754	0.426	0.637	2.6				
0.755	0.501	0.641	1.66				
0.768	0.602	0.6	1.35				
0.779	0.673	0.589	1.25				
0.794	0.703	0.554	0.949				
0.807	0.709	0.515	0.61				
0.807	0.715	0.51	0.958				
0.824	0.699	0.466	1.14				
0.829	0.68	0.456	1.24				
0.835	0.711	0.446	0.63				
0.847	0.716	0.418	1.18				
0.845	0.706	0.417	0.789				
0.86	0.719	0.385	1.21				
0.859	0.667	0.39	0.867				
0.876	0.667	0.341	1.14				
0.875	0.671	0.333	1.45				
0.878	0.664	0.339	1.37				
0.871	0.732	0.343	0.897				
0.887	0.756	0.318	0.817				
0.889	0.703	0.293	1.36				
0.902	0.717	0.272	0.822	0.922	0.725	0.229	1.73
0.899	0.696	0.282	1.96	0.932	0.749	0.19	1.39
0.894	0.632	0.284	1.33	0.933	0.749	0.183	0.988
0.909	0.719	0.262	1.27	0.933	0.735	0.192	1.3
0.908	0.74	0.256	0.975	0.93	0.699	0.198	1.43
0.913	0.728	0.243	1.03	0.933	0.738	0.178	1.23
0.916	0.739	0.236	0.939	0.932	0.729	0.196	1.16
0.919	0.744	0.234	0.993	0.934	0.742	0.196	1.39
0.918	0.707	0.227	1.11	0.934	0.751	0.182	1.07
0.925	0.726	0.215	0.997	0.946	0.734	0.16	0.935
0.923	0.694	0.21	1.04	0.938	0.754	0.177	1.4
0.924	0.71	0.226	1.04				





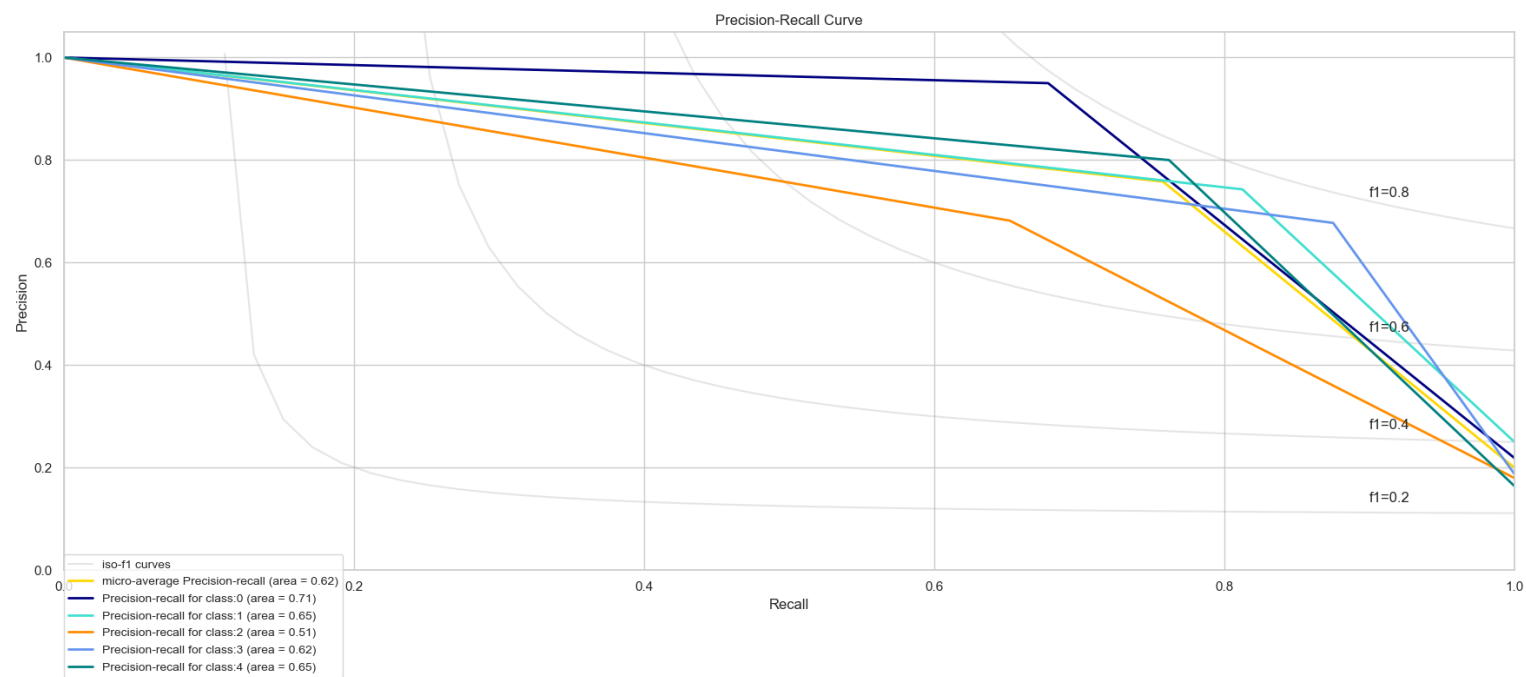






```
ROC_AUC_Score: 0.8476196413129063
```

```
Average precision score, micro-averaged over all classes: 0.62
```



	precision	recall	f1-score	support
daisy	0.95	0.68	0.79	28
dandelion	0.74	0.81	0.78	32
rose	0.68	0.65	0.67	23
sunflower	0.68	0.88	0.76	24
tulip	0.80	0.76	0.78	21
accuracy			0.76	128
macro avg	0.77	0.76	0.76	128
weighted avg	0.77	0.76	0.76	128

Average precision score, micro-averaged over all classes: $AP=0.62$

