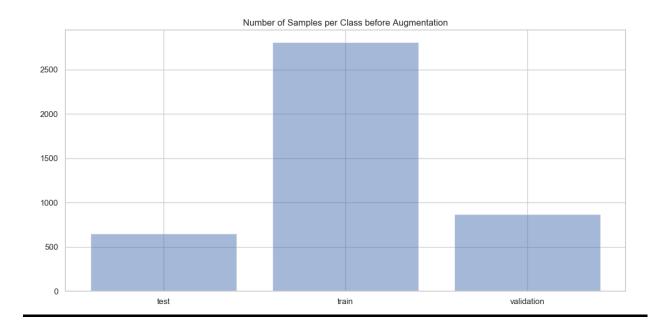
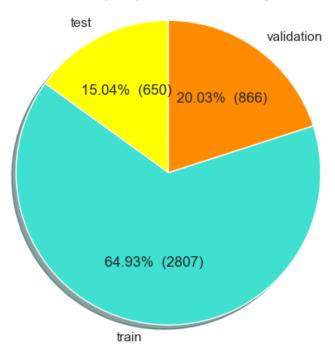
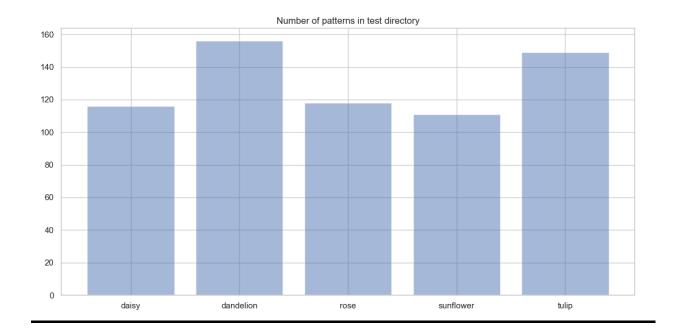
# **NEW SET DISTRIBUTION AUG-NORM**

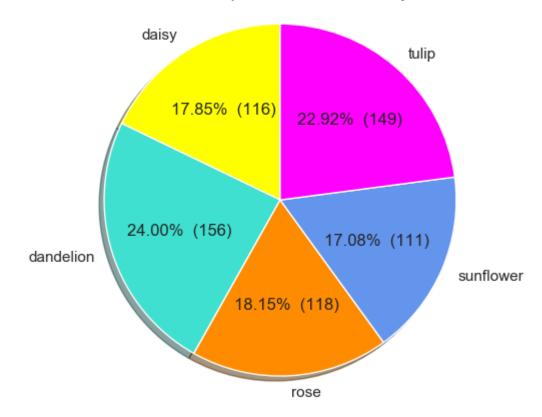


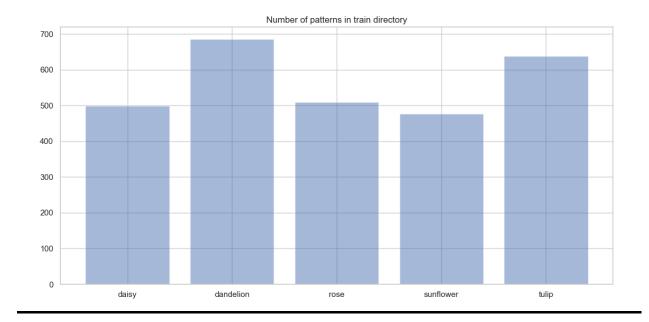
Number of Samples per Class before Augmentation



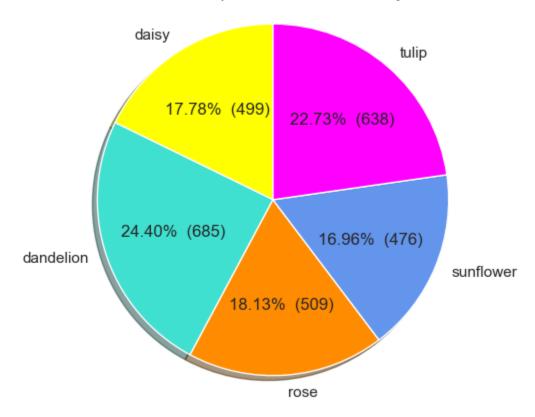


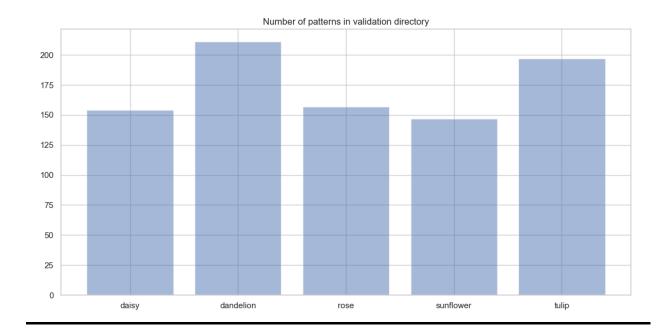
### Number of patterns in test directory



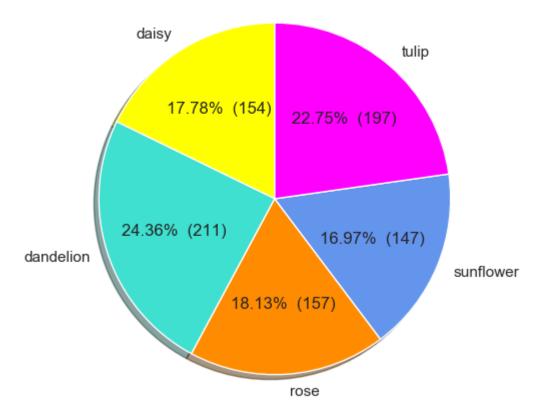


### Number of patterns in train directory

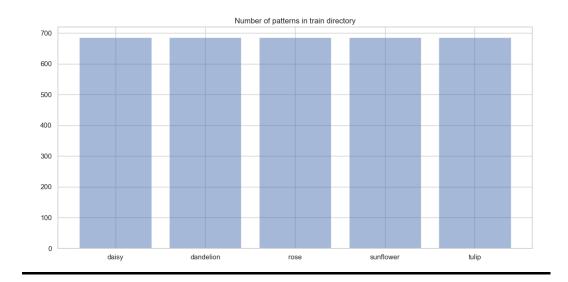




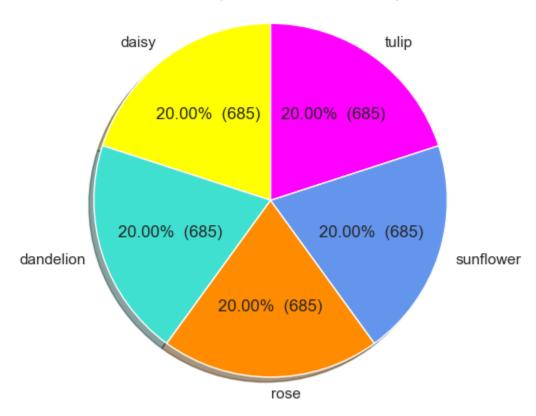
### Number of patterns in validation directory

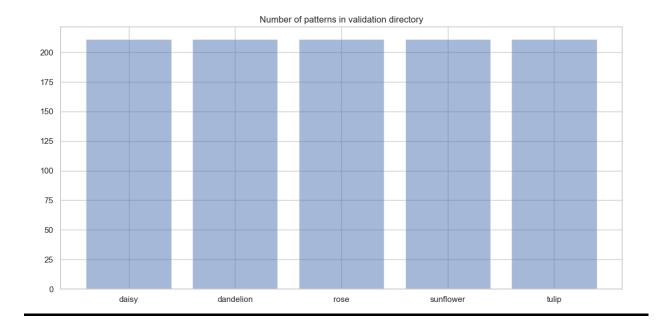


## **AFTER OVERSAMPLING**

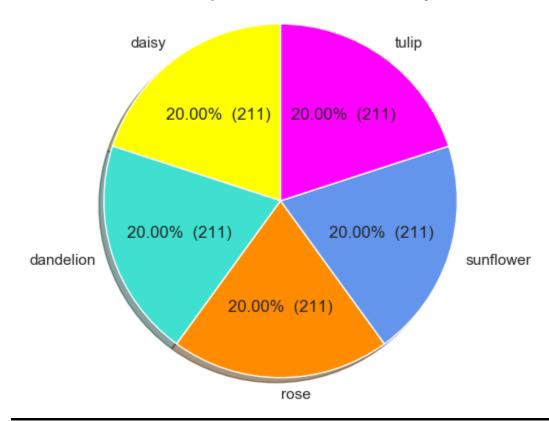


### Number of patterns in train directory





### Number of patterns in validation directory



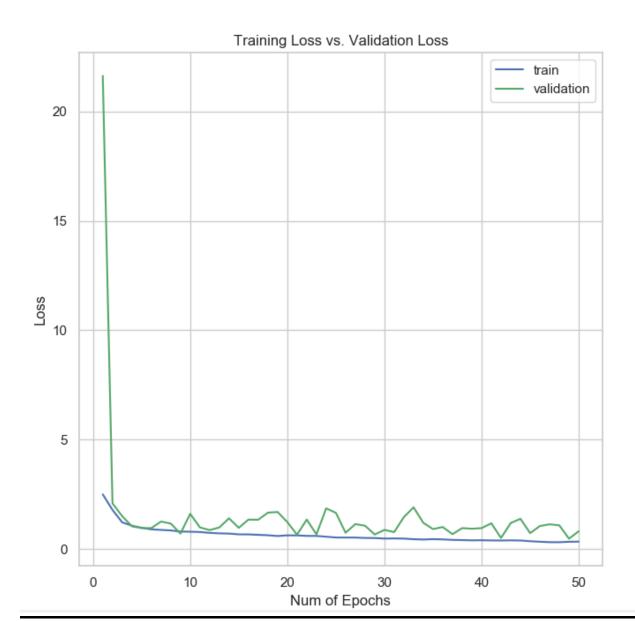
Model: "sequential_1"		
Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)		
max_pooling2d_1 (MaxPooling2	(None, 64, 64, 32)	0
batch_normalization_1 (Batch	(None, 64, 64, 32)	128
conv2d_2 (Conv2D)	(None, 64, 64, 64)	18496
max_pooling2d_2 (MaxPooling2	(None, 32, 32, 64)	0
batch_normalization_2 (Batch	(None, 32, 32, 64)	256
conv2d_3 (Conv2D)	(None, 32, 32, 96)	55392
max_pooling2d_3 (MaxPooling2	(None, 16, 16, 96)	0
batch_normalization_3 (Batch	(None, 16, 16, 96)	384
conv2d_4 (Conv2D)	(None, 16, 16, 96)	83040
max_pooling2d_4 (MaxPooling2	(None, 8, 8, 96)	0
batch_normalization_4 (Batch	(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		

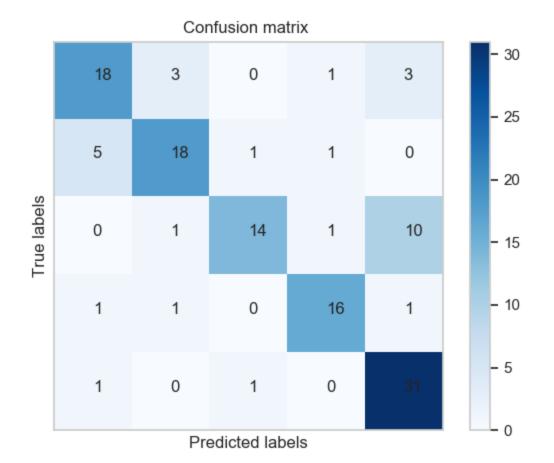
Total params: 3,309,317
Trainable params: 3,308,741
Non-trainable params: 576

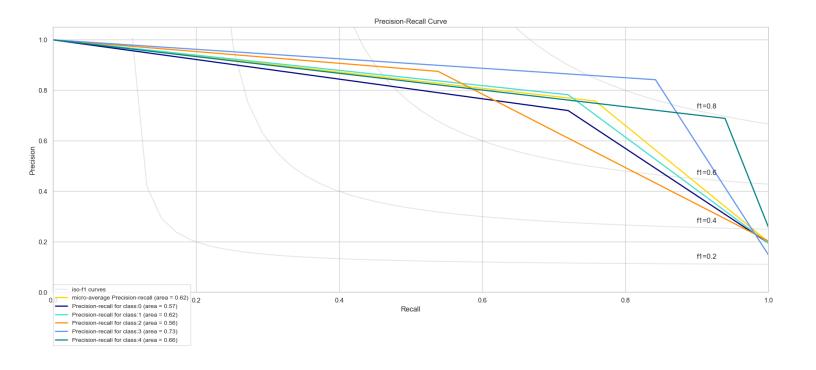
# **RESULTS**

acc	val_acc	loss	val_loss				
0.403	0 241	2 5	21 6				
	0.241						
	0.369	1.79					
	0.44		1.51				
	0.51		1.04				
	0.548		0.961				
	0.597		0.959				
	0.6						
	0.595						
	0.631						
		0.795					
	0.616						
0.719	0.593	0.743	0.869				
0.721	0.645	0.722	0.99				
	0.607						
0.756	0.63	0.675	0.972				
0.75	0.614	0.673	1.35				
0.759	0.668	0.654	1.34				
0.764	0.633	0.635	1.67				
0.78	0.626	0.599	1.7				
0.765	0.658	0.63	1.24				
0.764	0.627	0.627	0.661				
0.775	0.634	0.605	1.35				
0.772	0.669	0.602	0.675				
0.778	0.645	0.568	1.86				
0.802	0.616	0.53	1.66				
0.798	0.655	0.529	0.748				
0.806	0.655	0.528	1.14				
0.809	0.653	0.51	1.07				
0.807	0.674	0.506	0.668				
0.821	0.636	0.482	0.88				
0.816	0.618	0.488	0.778				
0.816	0.682	0.481	1.47				
0.826	0.666	0.453	1.91	A 9EE	0.679	0.4	1 10
0.839	0.654	0.439	1.2	0.855	0.678	0.4	1.19
0.828	0.69	0.455	0.916	0.852	0.674	0.394	1.39
0.837	0.67	0.444	1.01	0.869	0.687	0.362	0.731
0.846	0.687	0.422	0.682	0.875	0.706	0.338	1.05
0.847	0.663	0.413	0.961	0.878	0.697	0.318	1.13
0.852	0.7	0.401	0.932				
0.851	0.663	0.406	0.959	0.883	0.698	0.316	1.09
0.848	0.72	0.397	1.18	0.878	0.707	0.336	0.477
0.855	0.659	0.394	0.511	0.874	0.685	0.343	0.816

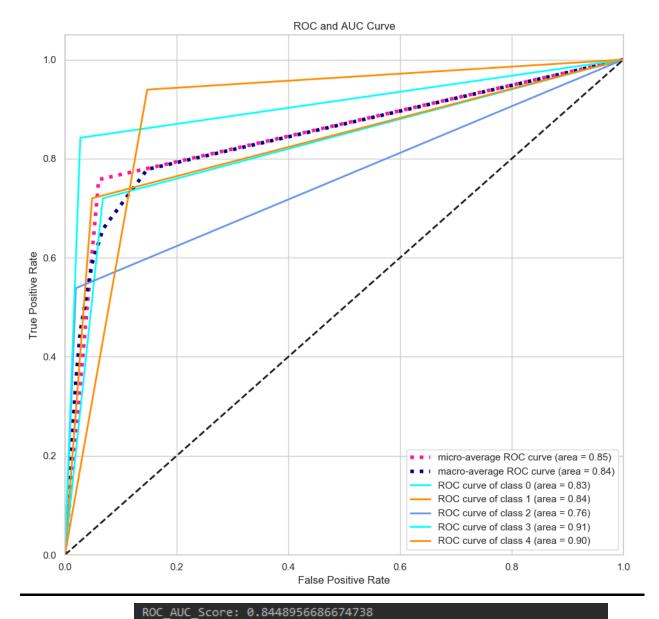








	precision	recall	f1-score	support	
daisy	0.72	0.72	0.72	25	
dandelion rose	0.78 0.88	0.72 0.54	0.75 0.67	25 26	
sunflower tulip	0.84 0.69	0.84 0.94	0.84 0.79	19 33	
accuracy			0.76	128	
macro avg	0.78	0.75	0.75	128	
weighted avg	0.77	0.76	0.75	128	



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

