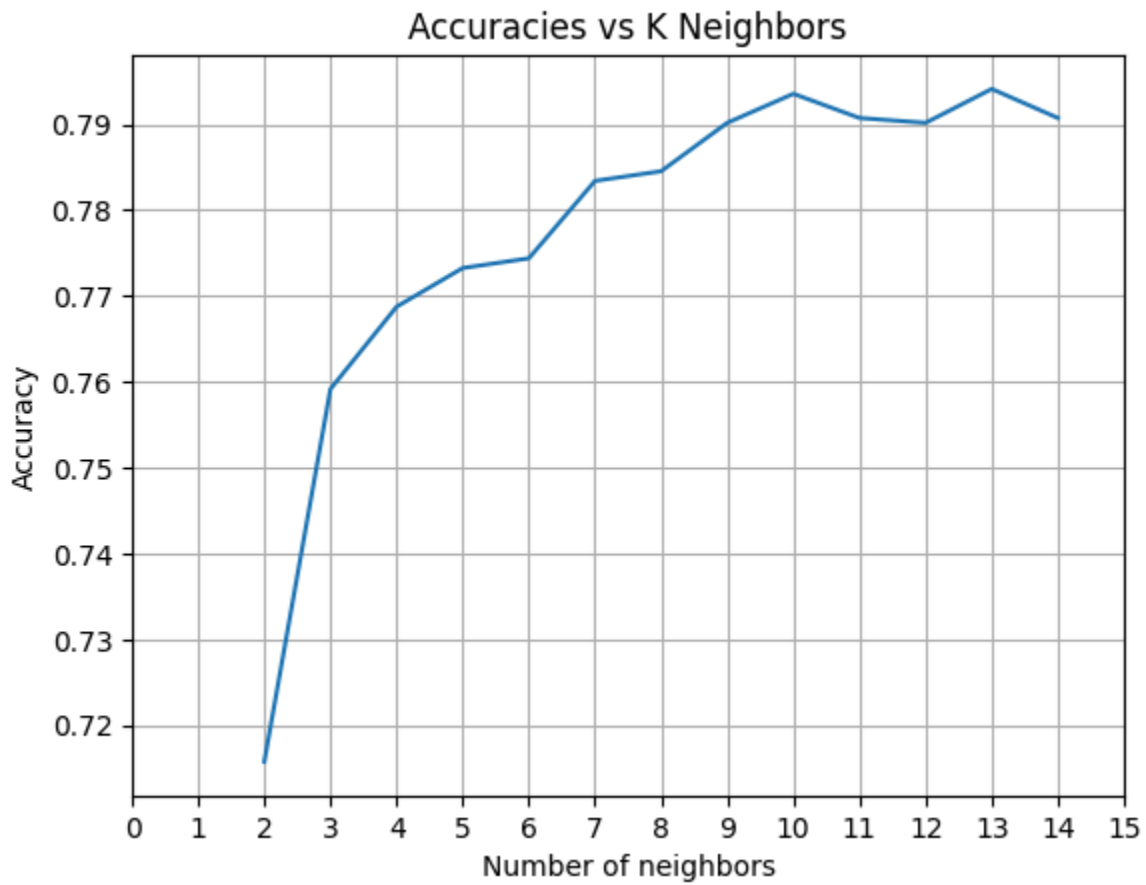


KNN

Training Accuracy:

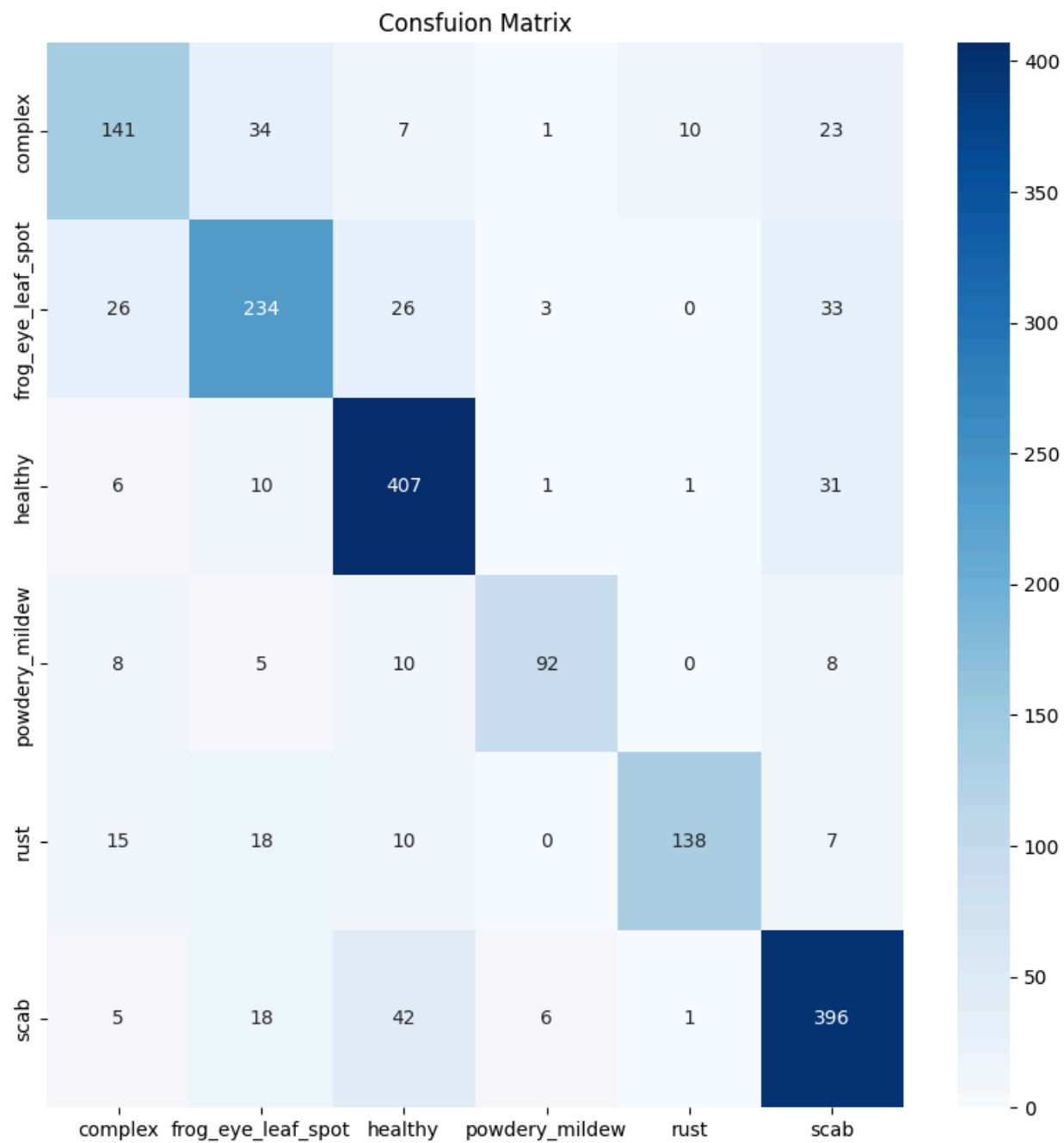


Validation Accuracy:

Accuracy score: 0.7941342357586012

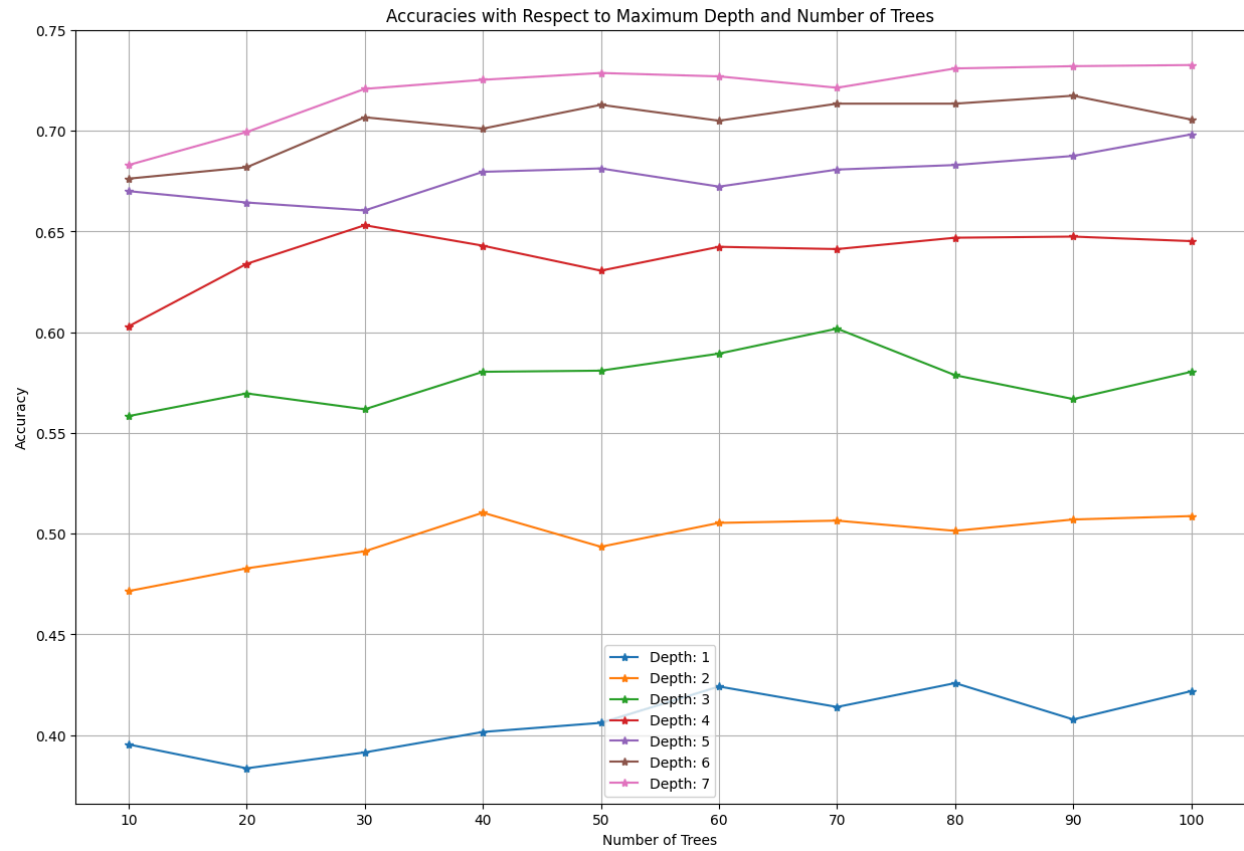
Classification Report:
support

			precision	recall	f1-score
0	0.70	0.65	0.68	216	
1	0.73	0.73	0.73	322	
2	0.81	0.89	0.85	456	
3	0.89	0.75	0.81	123	
4	0.92	0.73	0.82	188	
5	0.80	0.85	0.82	468	
accuracy			0.79	1773	
macro avg	0.81	0.77	0.78	1773	
weighted avg	0.80	0.79	0.79	1773	



RF

Training Accuracy:

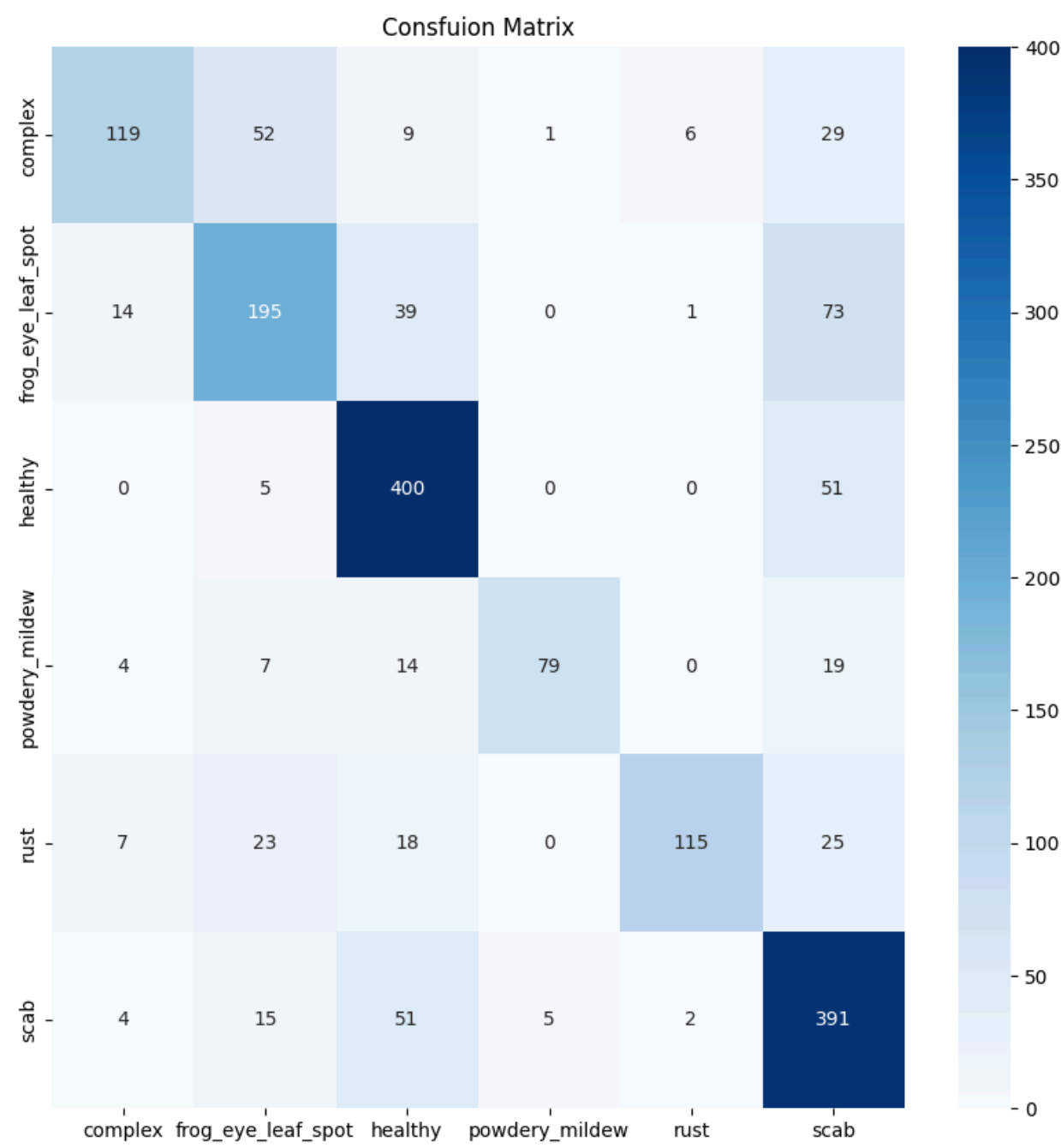


Accuracy score: 0.7326565143824028

Classification Report:
support

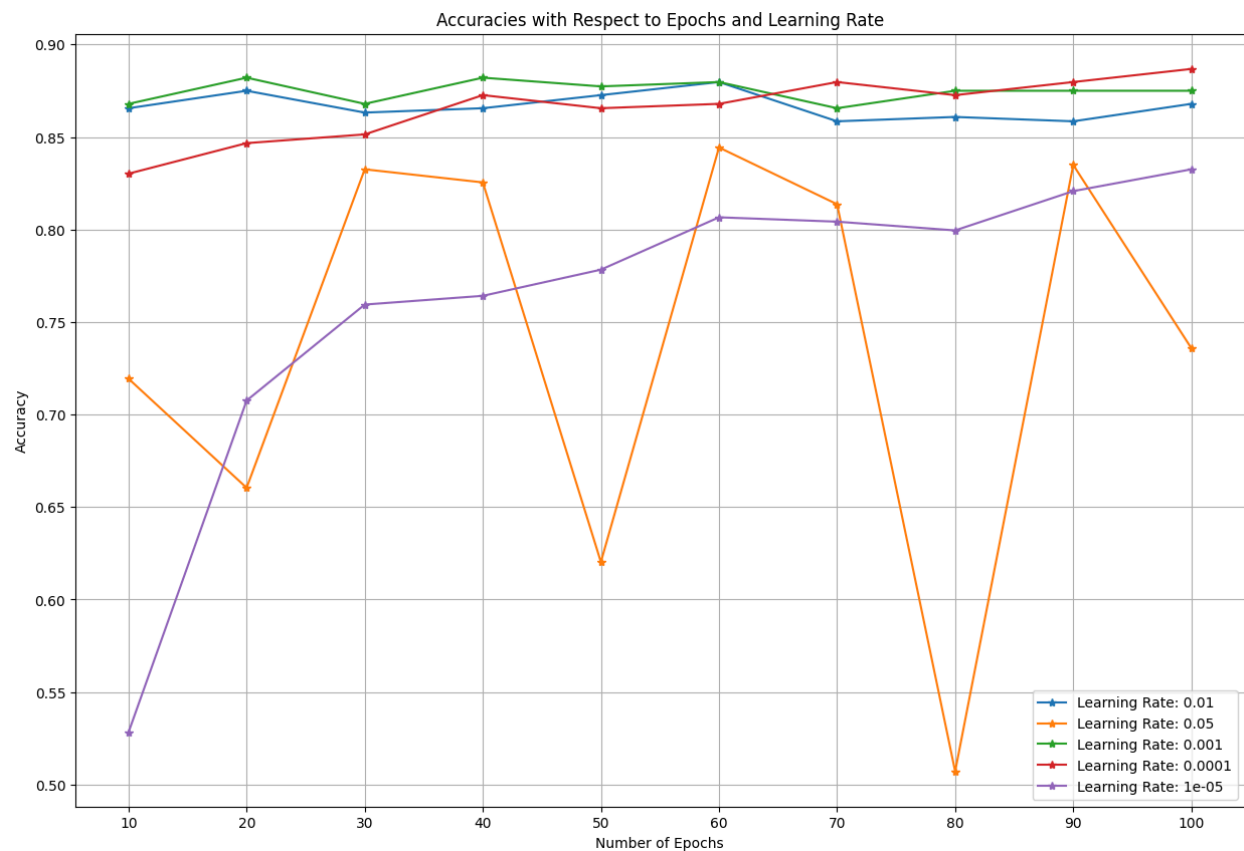
			precision	recall	f1-score
0	0.80	0.55	0.65	216	
1	0.66	0.61	0.63	322	
2	0.75	0.88	0.81	456	
3	0.93	0.64	0.76	123	
4	0.93	0.61	0.74	188	
5	0.66	0.84	0.74	468	
accuracy			0.73	1773	
macro avg	0.79	0.69	0.72	1773	
weighted avg	0.75	0.73	0.73	1773	

Confusion Matrix



MLP

Training Accuracy:



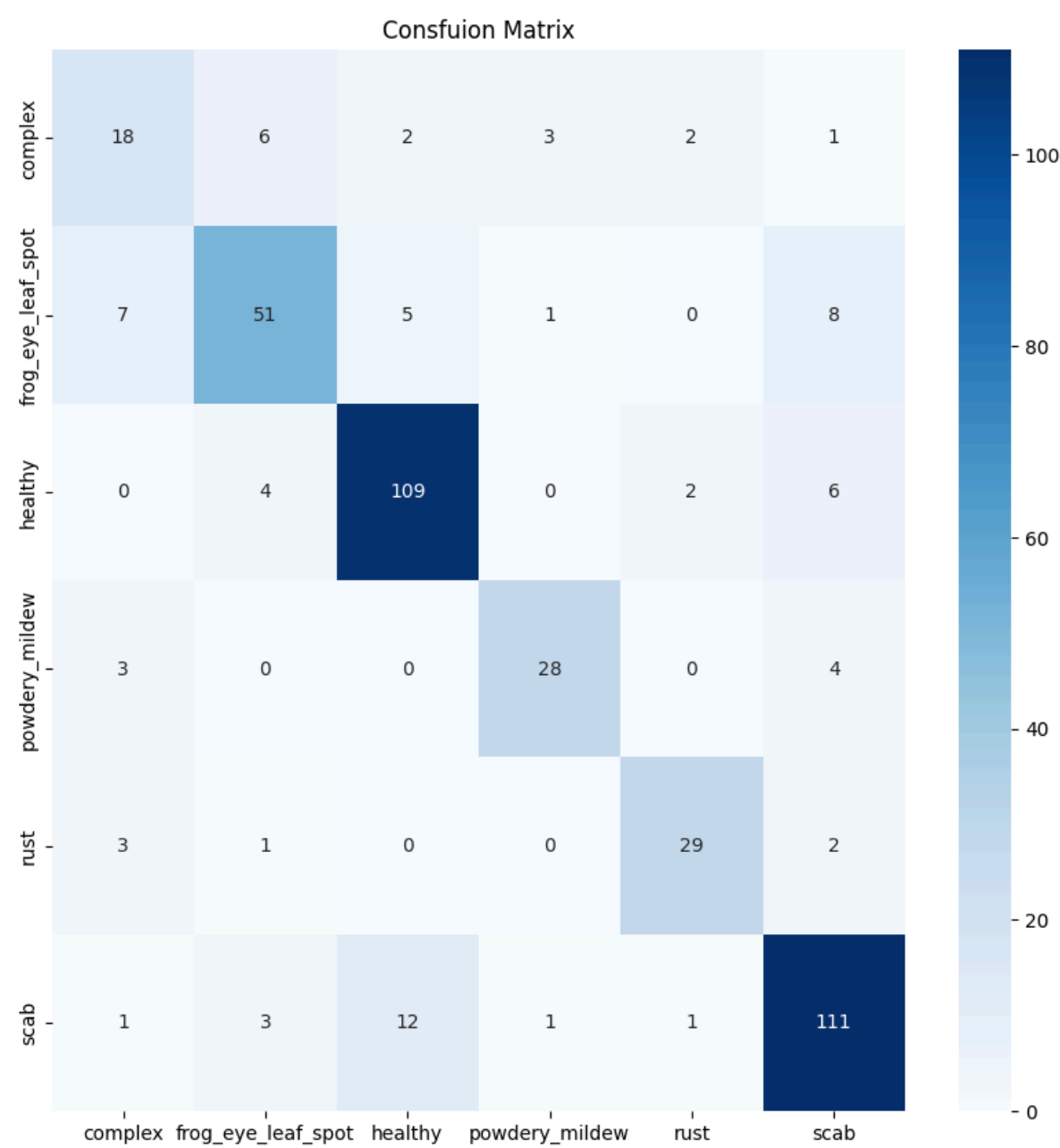
Validation Accuracy

Accuracy score: 0.875

Classification Report:
support

			precision	recall	f1-score
0	0.66	0.66	0.66	32	
1	0.86	0.86	0.86	72	
2	0.91	0.93	0.92	121	
3	0.91	0.83	0.87	35	
4	0.89	0.91	0.90	35	
5	0.89	0.89	0.89	129	
accuracy			0.88	424	
macro avg	0.85	0.85	0.85	424	
weighted avg	0.88	0.88	0.87	424	

Confusion Matrix



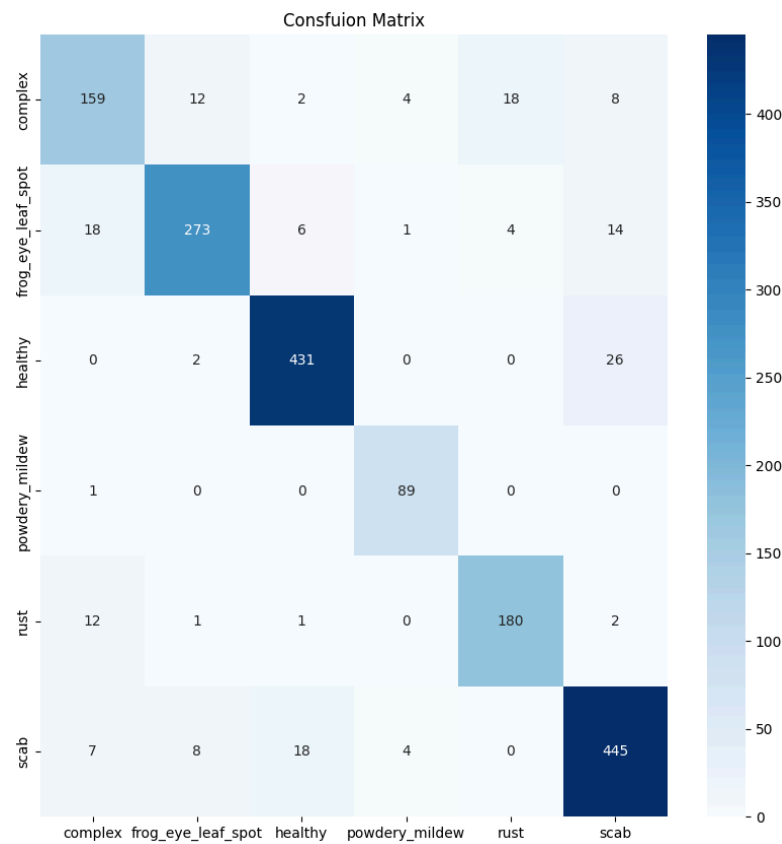
Test Accuracy

Report:

Accuracy score: 0.9032073310423826

Classification Report:		precision		recall	f1-score
support					
	0	0.81	0.78	0.80	203
	1	0.92	0.86	0.89	316
	2	0.94	0.94	0.94	459
	3	0.91	0.99	0.95	90
	4	0.89	0.92	0.90	196
	5	0.90	0.92	0.91	482
accuracy				0.90	1746
macro avg		0.89	0.90	0.90	1746
weighted avg		0.90	0.90	0.90	1746

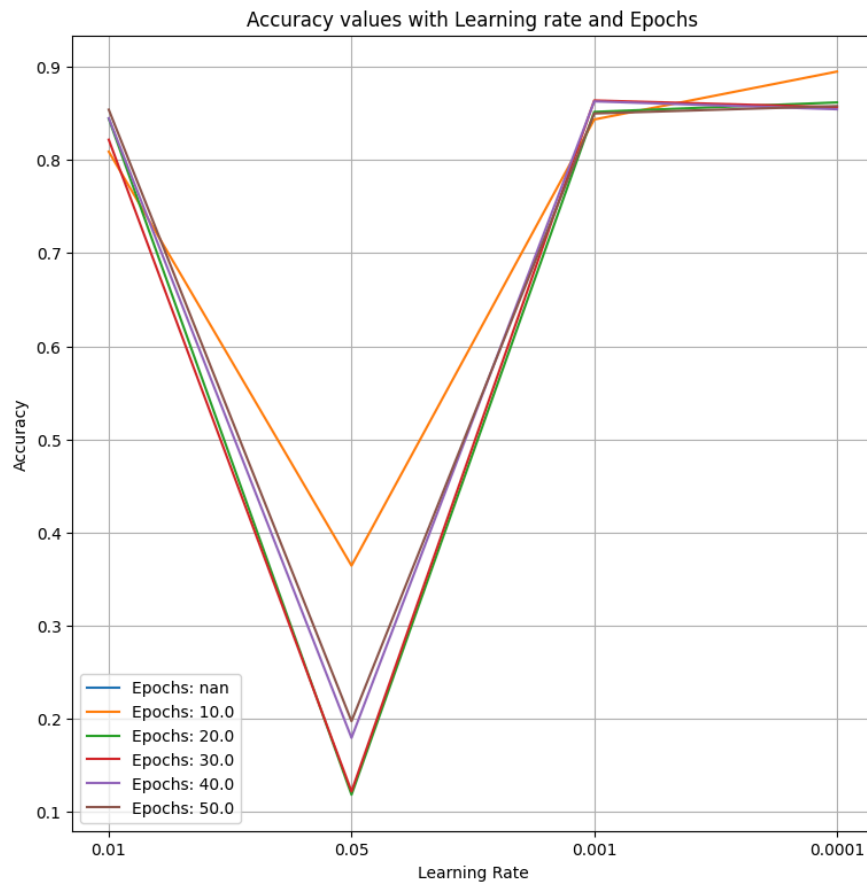
Confusion Matrix



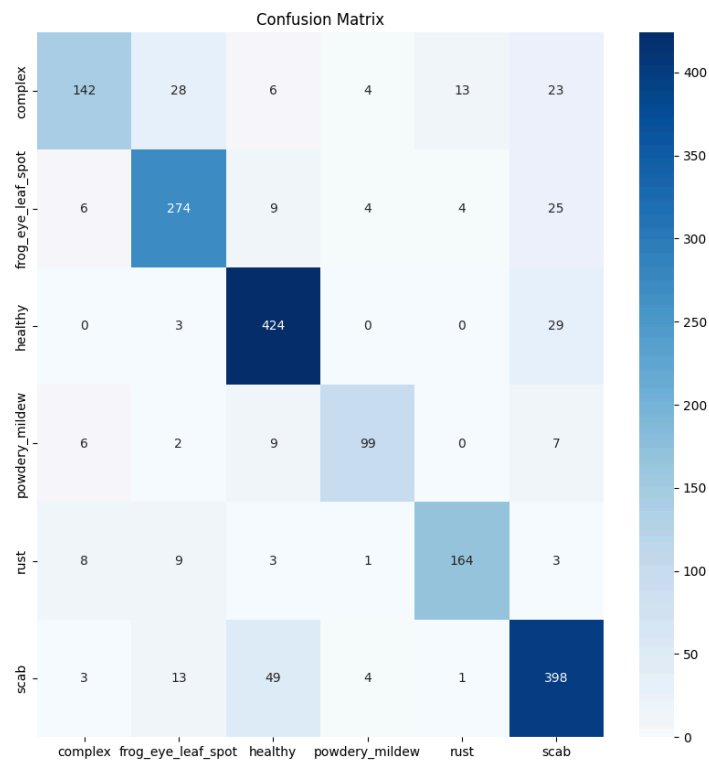
ResNet-50

https://colab.research.google.com/drive/1n5aHb1r6OD8UUPI5crhKuyq_4L-xbnSe#scrollTo=-1PIGZ5PV2sN

Training Accuracy Plot



Validation Confusion Matrix

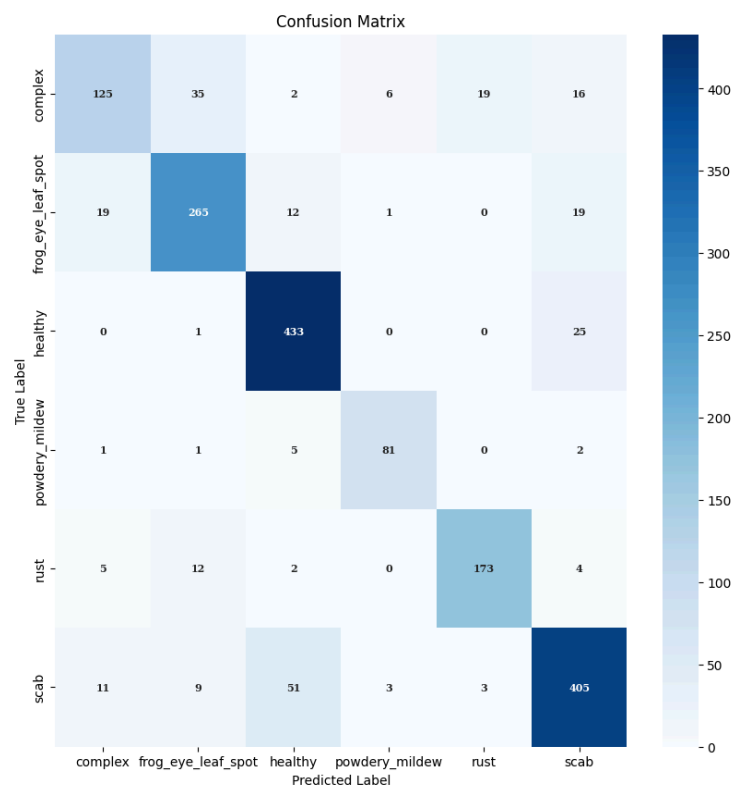


Classification Report

precision	recall	f1-score	support		
	0	0.86	0.66	0.75	216
	1	0.83	0.85	0.84	322
	2	0.85	0.93	0.89	456
	3	0.88	0.80	0.84	123
	4	0.90	0.87	0.89	188
	5	0.82	0.85	0.84	468
accuracy				0.85	1773
macro avg		0.86	0.83	0.84	1773
weighted avg		0.85	0.85	0.84	1773

<https://colab.research.google.com/drive/1Ns1pxvmsCWluCiXcHmYMjMKV9y9Ub0Bx#scrollTo=92IfbX0SEiS5>

Testing Confusion Matrix



Testing Classification Report

	precision	recall	f1-score	support	
	0	0.78	0.62	0.69	203
	1	0.82	0.84	0.83	316
	2	0.86	0.94	0.90	459
	3	0.89	0.90	0.90	90
	4	0.89	0.88	0.88	196
	5	0.86	0.84	0.85	482
accuracy				0.85	1746
macro avg		0.85	0.84	0.84	1746
weighted avg		0.85	0.85	0.85	1746