

Texture_2 - Random 5 Categories - 40 Images per category

Overall Statistics

Average AUC: 0.82

Total Super Categories: 10

Total Categories: 47

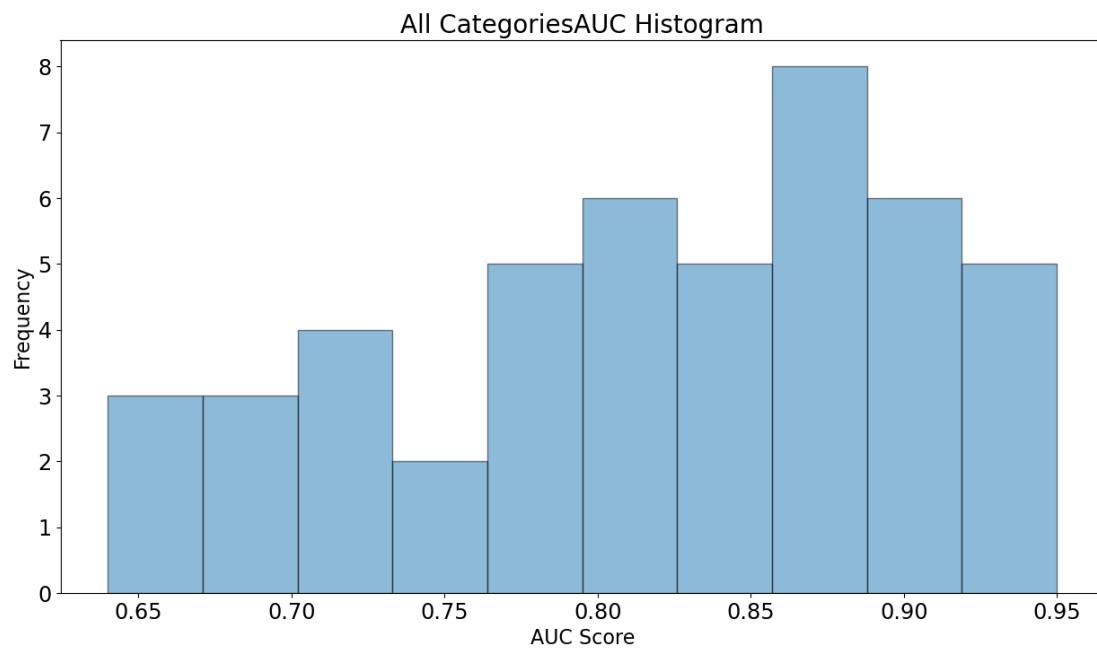
Categories randomly combined: 5

Summary

Super Category	Categories	Average AUC	Min AUC	Max AUC	AUC S.D	Error
0	braided chequered interlaced stained studded	0.81	0.69	0.93	0.08	0.05
1	dotted flecked knitted waffled woven	0.82	0.65	0.90	0.09	0.05
2	banded bubbly cobwebbed fibrous paisley	0.88	0.80	0.92	0.04	0.05
3	blotchy crystalline lacelike pitted stratified	0.72	0.64	0.83	0.06	0.05
4	crosshatched honeycombed scaly spiralled veined	0.76	0.70	0.83	0.04	0.05
5	bumpy gauzy perforated polka-dotted sprinkled	0.78	0.66	0.90	0.09	0.05
6	frilly marbled matted smeared zigzagged	0.81	0.78	0.88	0.04	0.05
	freckled meshed					

7	potholed striped	0.91	0.88	0.95	0.03	0.05
8	grid lined pleated wrinkled	0.82	0.76	0.87	0.04	0.05
9	cracked grooved porous swirly	0.87	0.81	0.92	0.04	0.05

Overall AUC Histogram



Super-Category 0

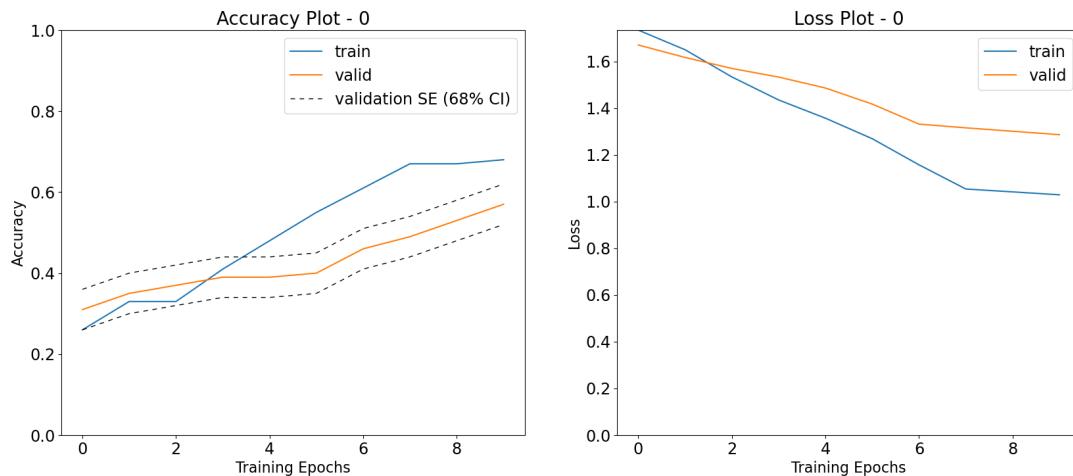
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 57s
Best Train Accuracy	0.68
Best Valid Accuracy	0.57
AUC	0.81
2*AUC-1	0.63
Standard Error	0.05

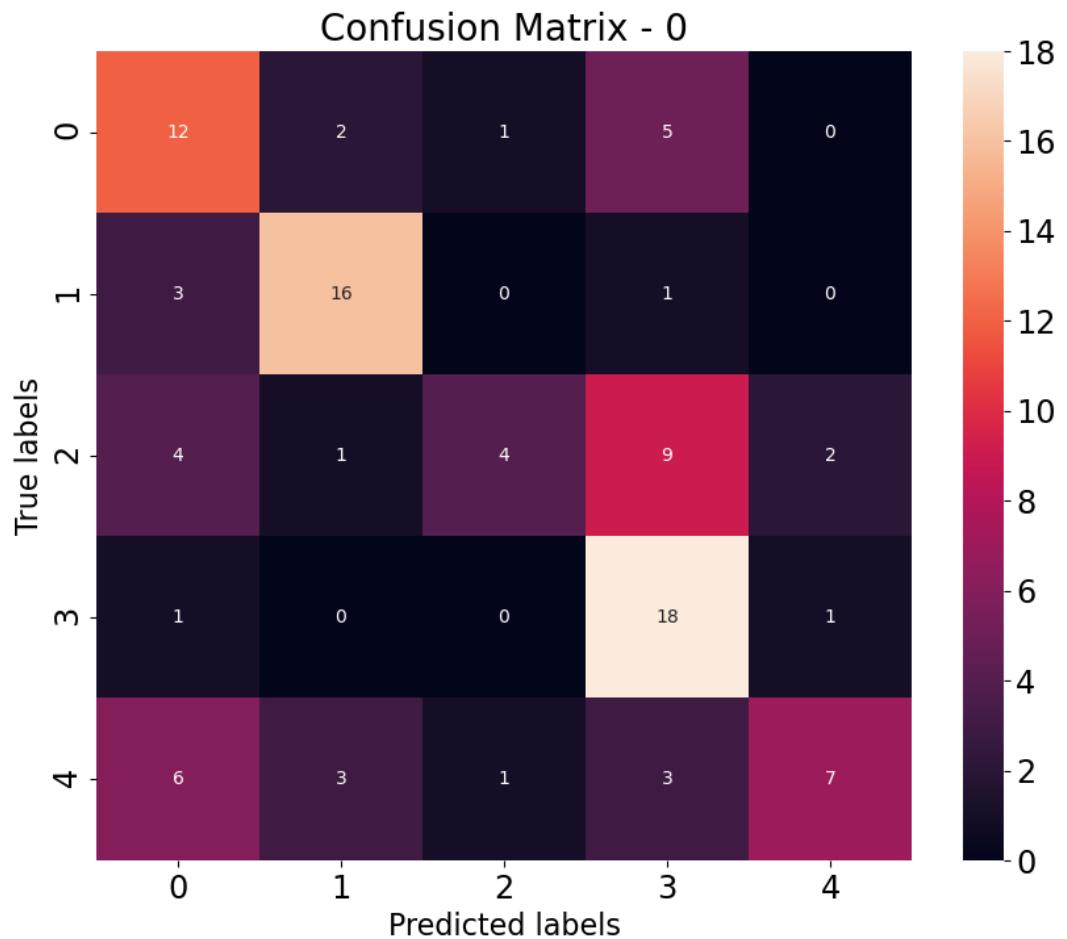
Categories

Category #	Category Name
0	braided
1	chequered
2	interlaced
3	stained
4	studded

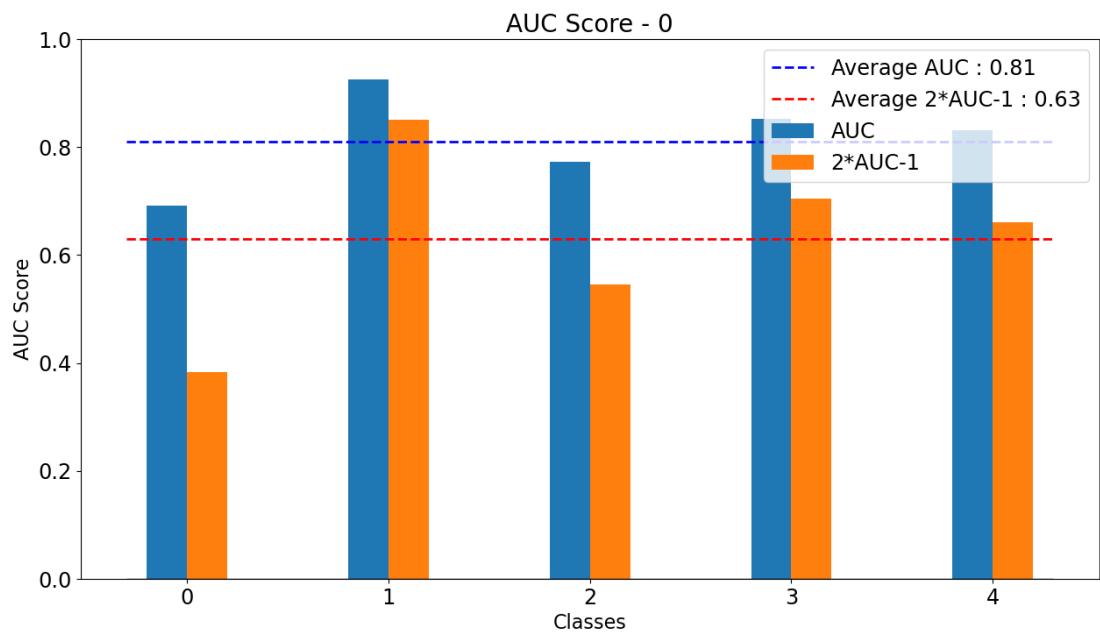
Accuracy Loss Plot



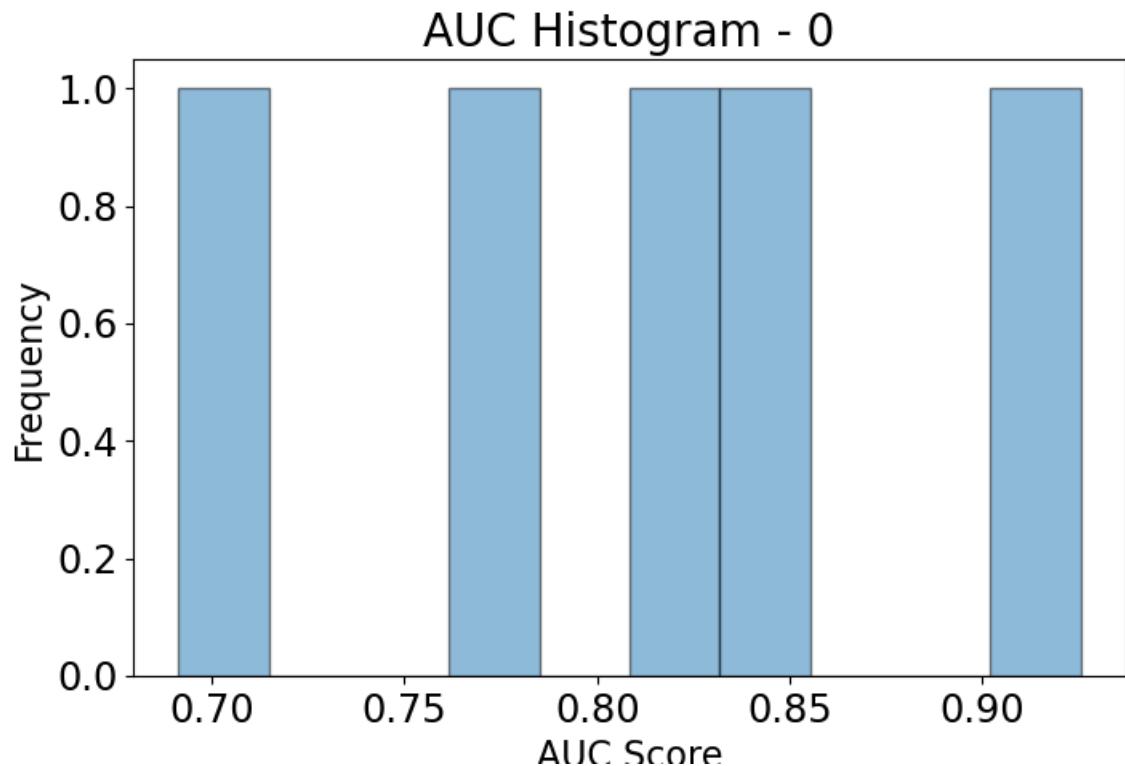
Confusion Matrix



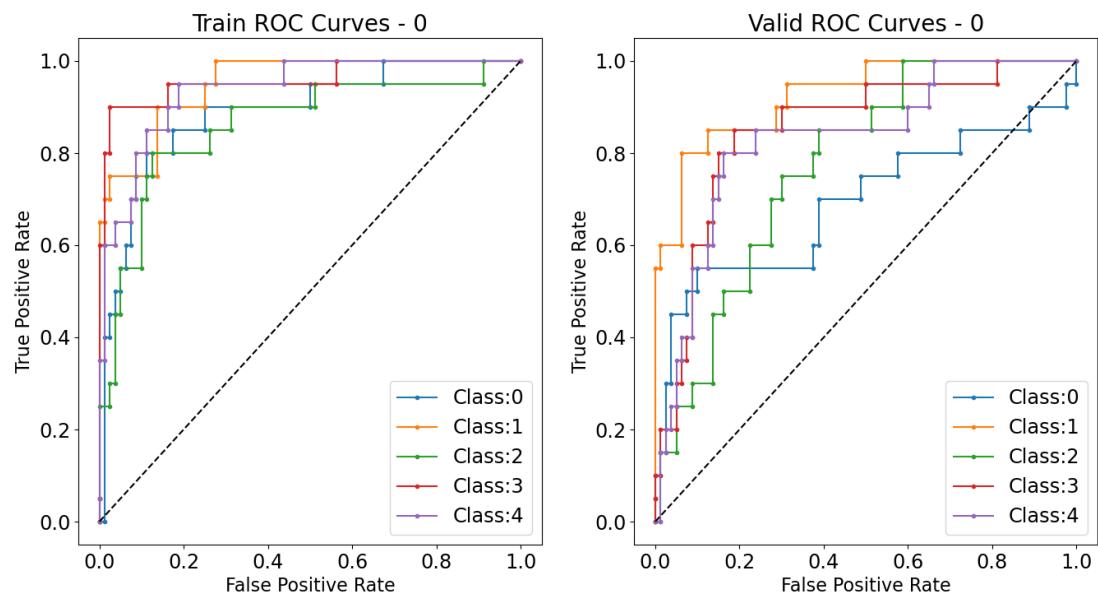
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images

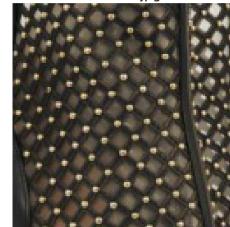
Orig lbl : stained(3)
Pred lbl : braided(0)
f99663ff-0520-482e-aa14-b124f3
0fb1b.jpg



Orig lbl : interlaced(2)
Pred lbl : studded(4)
ce5e8c00-2e01-40cd-84ce-3ef083
ddd778.jpg



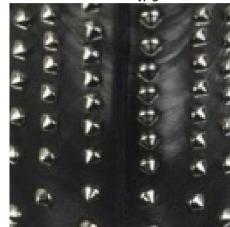
Orig lbl : studded(4)
Pred lbl : chequered(1)
b3cf264e-130f-4a61-a19b-2dc832
414c9b.jpg



Orig lbl : interlaced(2)
Pred lbl : stained(3)
78809c7e-7b8c-44db-b457-bd1e0c
7676a7.jpg



Orig lbl : studded(4)
Pred lbl : stained(3)
78809c7e-7b8c-44db-b457-bd1e0c
7676a7.jpg



Super-Category 1

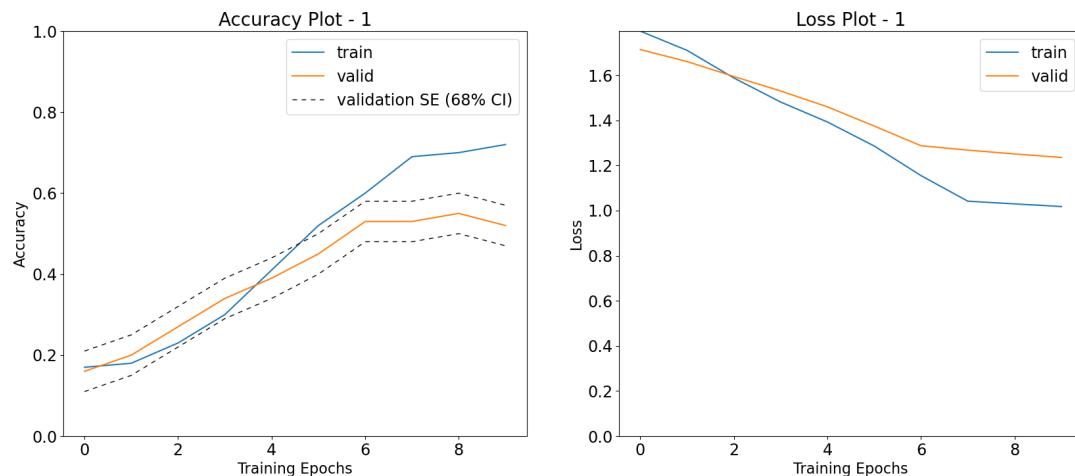
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 56s
Best Train Accuracy	0.72
Best Valid Accuracy	0.55
AUC	0.82
2*AUC-1	0.64
Standard Error	0.05

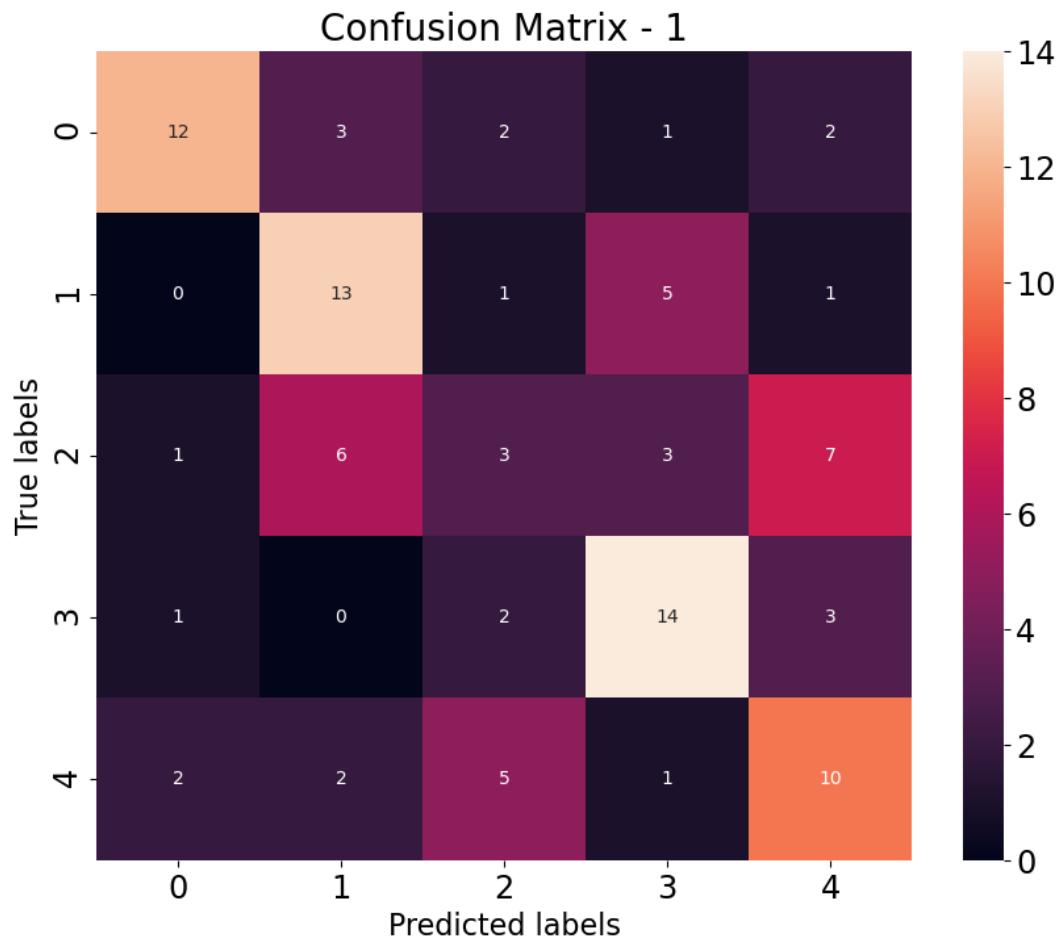
Categories

Category #	Category Name
0	dotted
1	flecked
2	knitted
3	waffled
4	woven

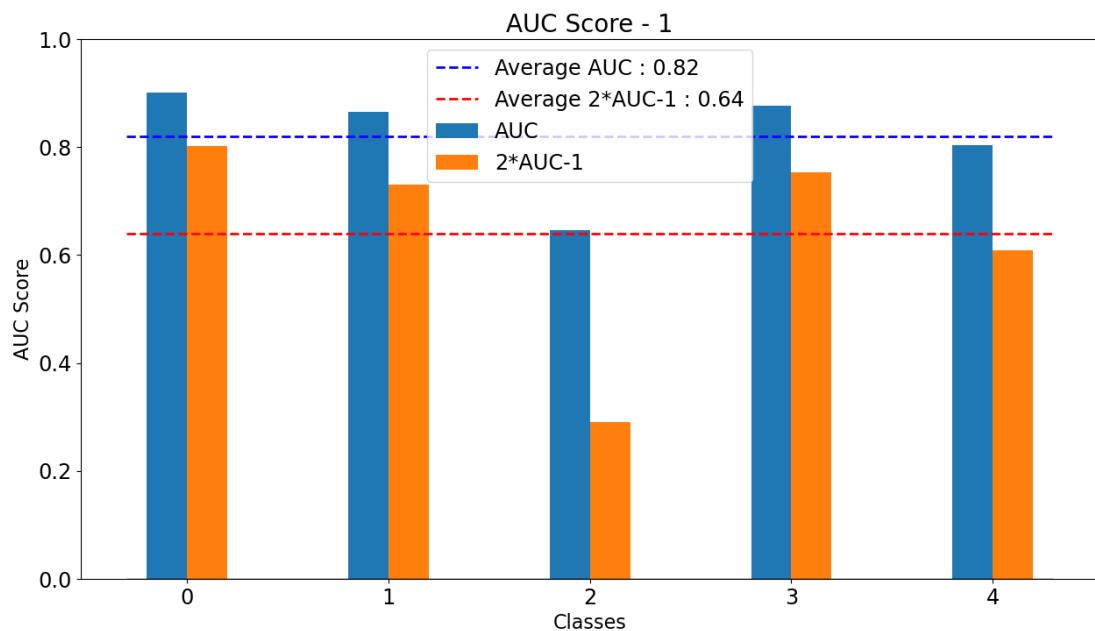
Accuracy Loss Plot



Confusion Matrix

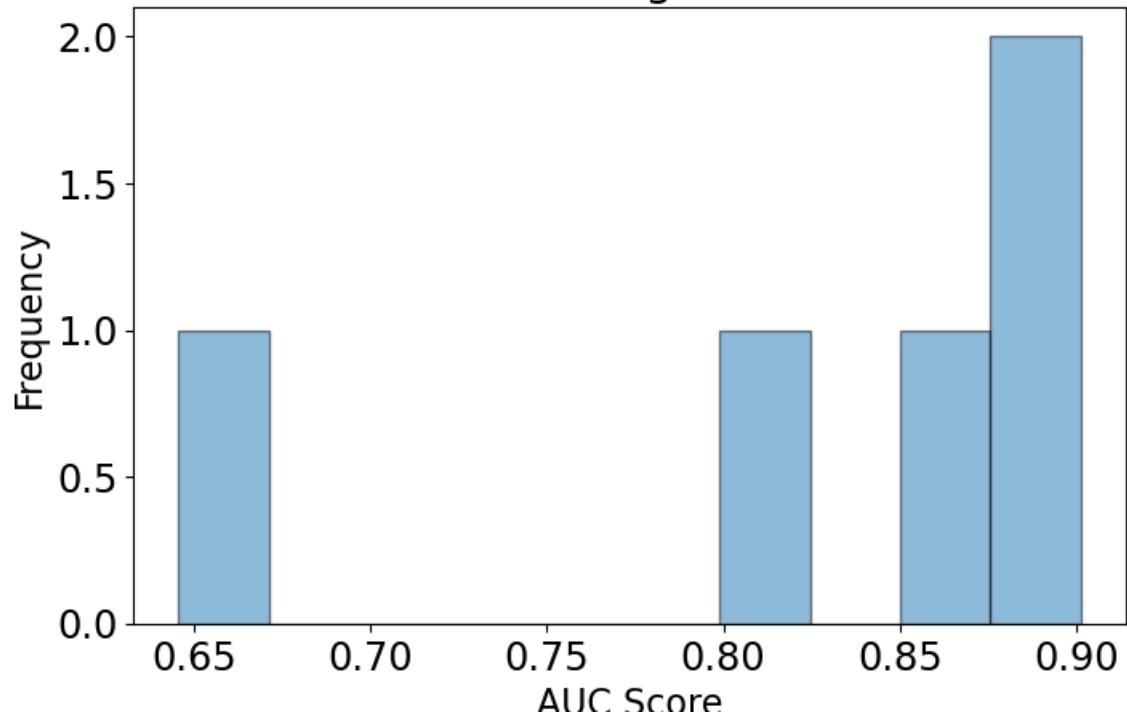


AUC

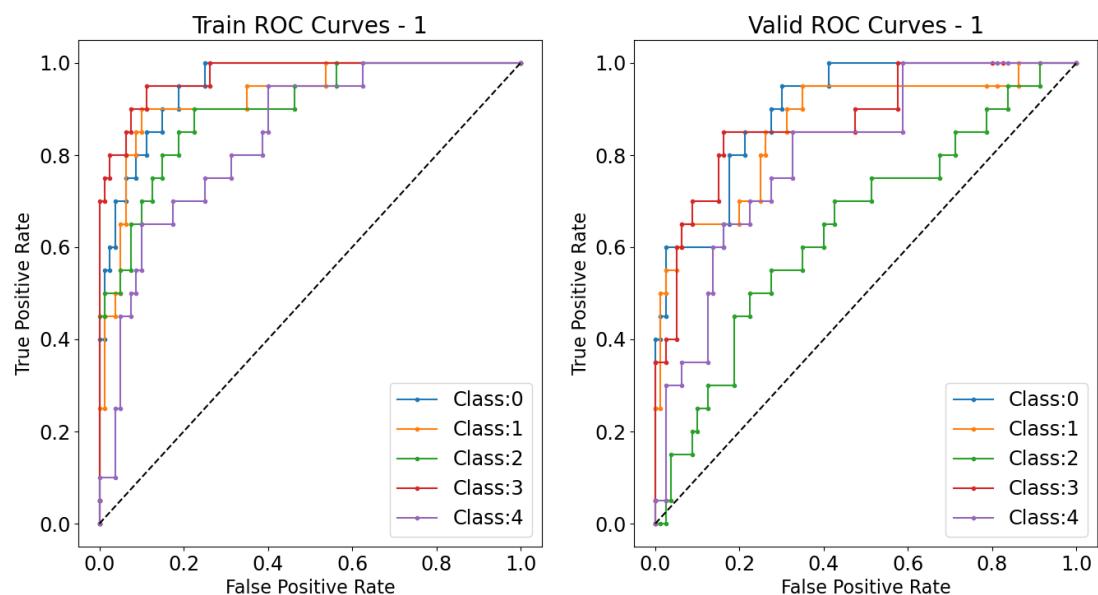


AUC Histogram

AUC Histogram - 1



ROC Curves



Sample Images



Wrongly Classified Images

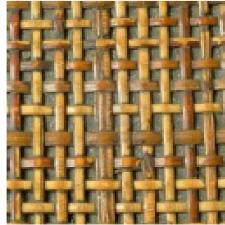
Orig lbl : knitted(2)
Pred lbl : waffled(3)
917263c8-4b82-490e-aa41-4f7836
098e0e.jpg



Orig lbl : woven(4)
Pred lbl : flecked(1)
3f297acc-e2e5-418f-96c6-059b1b
858beb.jpg



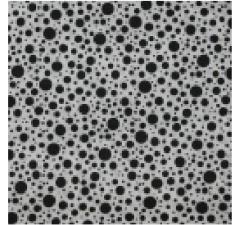
Orig lbl : woven(4)
Pred lbl : knitted(2)
1df5f1fb-0e30-4dcd-8adb-612541
d388a4.jpg



Orig lbl : knitted(2)
Pred lbl : flecked(1)
3f297acc-e2e5-418f-96c6-059b1b
858beb.jpg



Orig lbl : dotted(0)
Pred lbl : flecked(1)
3f297acc-e2e5-418f-96c6-059b1b
858beb.jpg



Super-Category 2

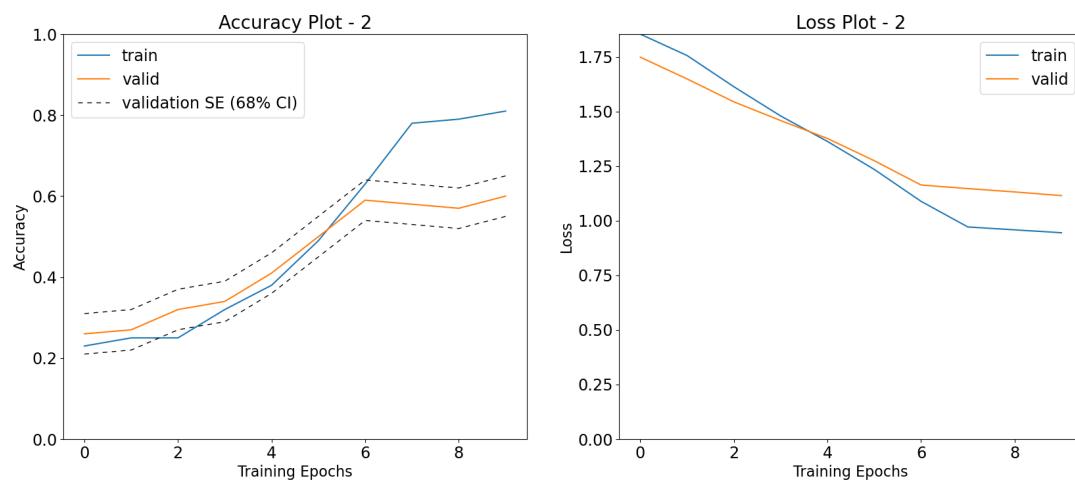
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 56s
Best Train Accuracy	0.81
Best Valid Accuracy	0.6
AUC	0.88
2*AUC-1	0.76
Standard Error	0.05

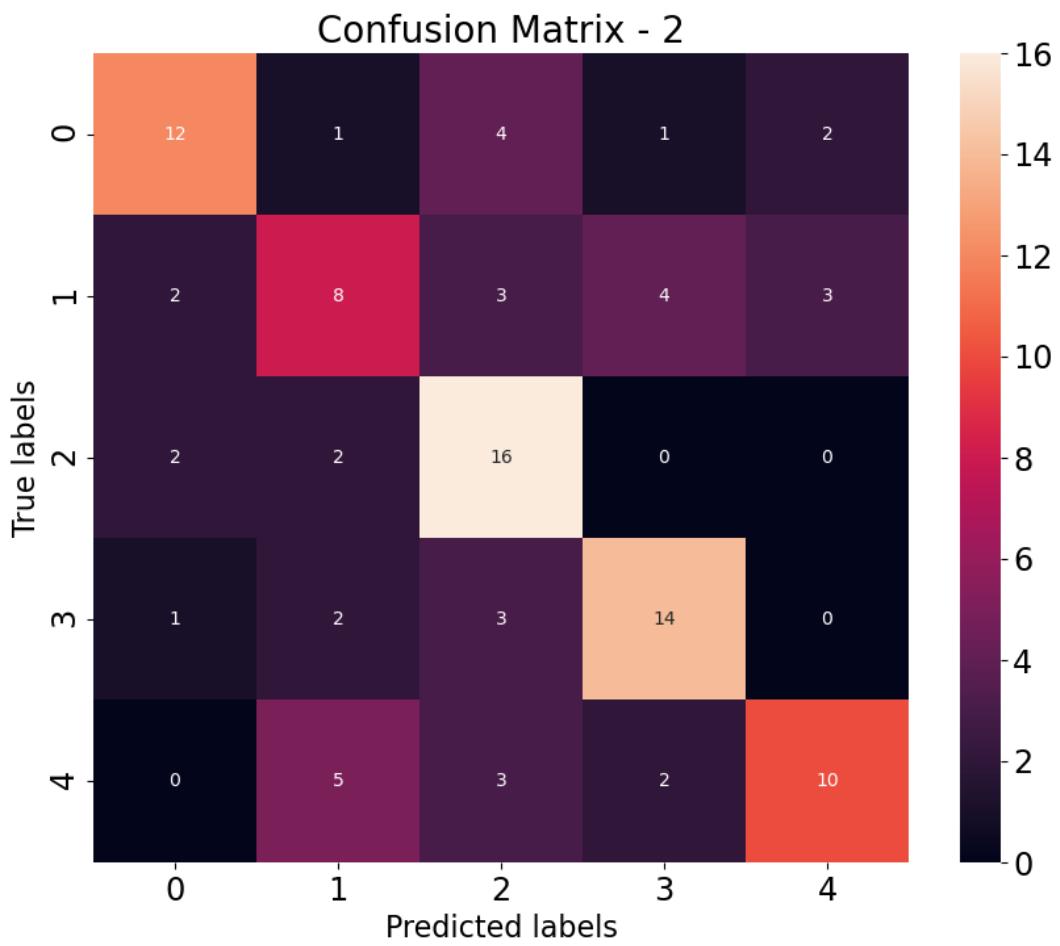
Categories

Category #	Category Name
0	banded
1	bubbly
2	cobwebbed
3	fibrous
4	paisley

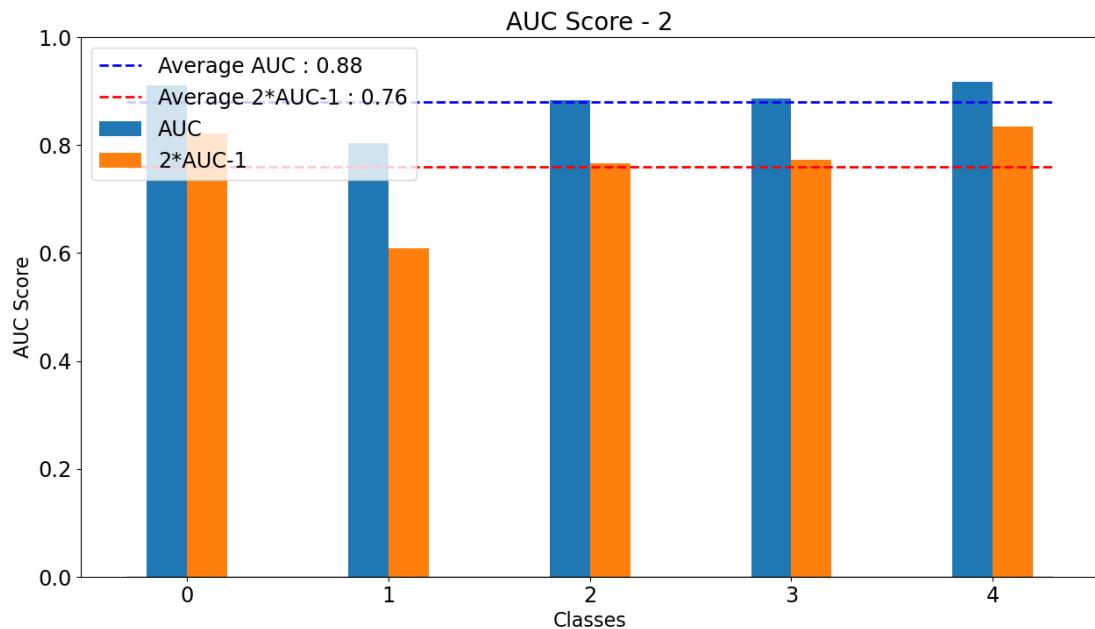
Accuracy Loss Plot



Confusion Matrix

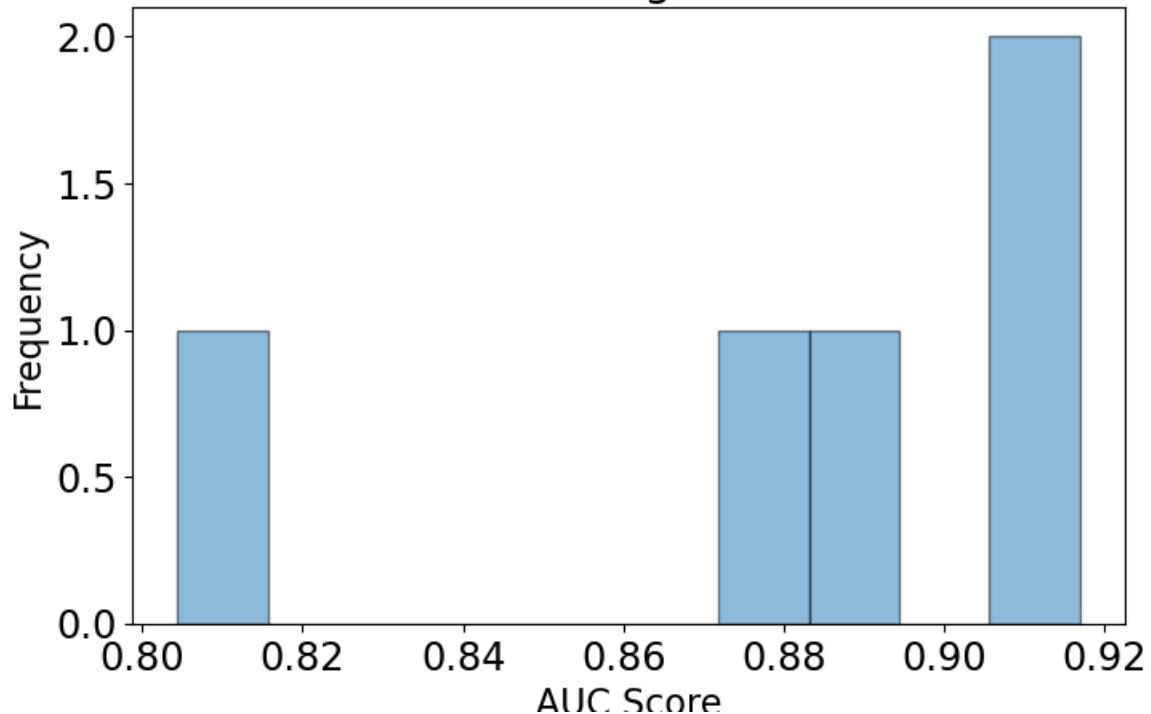


AUC

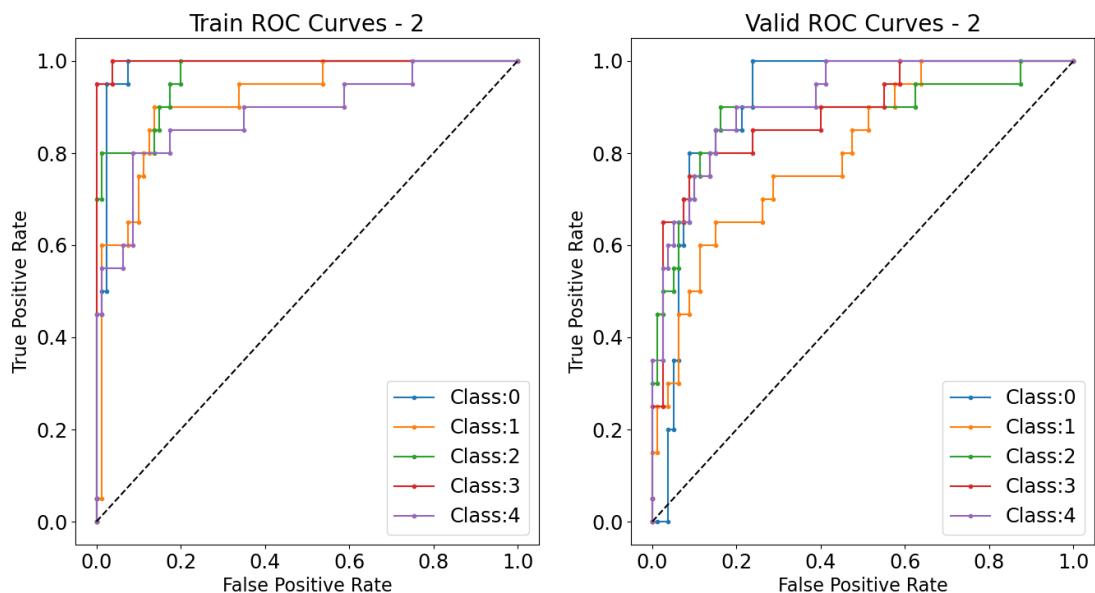


AUC Histogram

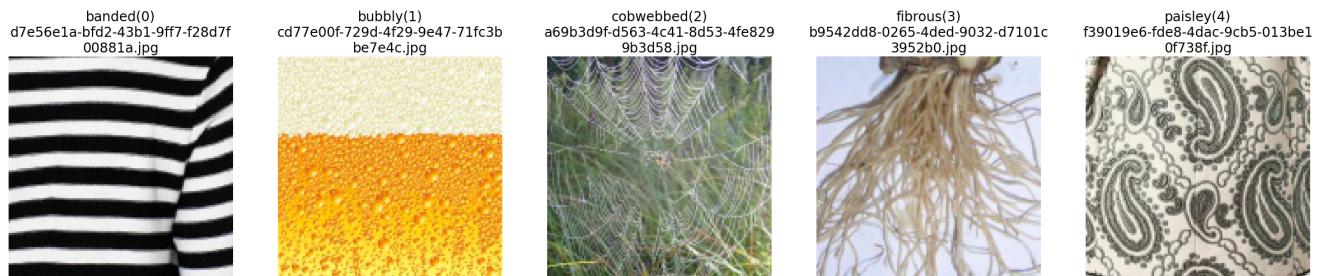
AUC Histogram - 2



ROC Curves



Sample Images



Wrongly Classified Images

Orig lbl : fibrous(3)
Pred lbl : banded(0)
f7a9c118-7c94-4834-8ddd-286862
52ee7.jpg



Orig lbl : cobwebbed(2)
Pred lbl : banded(0)
f7a9c118-7c94-4834-8ddd-286862
52ee7.jpg



Orig lbl : paisley(4)
Pred lbl : bubbly(1)
1a12beac-06de-4661-a700-55dbe
3ef990.jpg



Orig lbl : paisley(4)
Pred lbl : bubbly(1)
1a12beac-06de-4661-a700-55dbe
3ef990.jpg



Orig lbl : paisley(4)
Pred lbl : bubbly(1)
1a12beac-06de-4661-a700-55dbe
3ef990.jpg



Super-Category 3

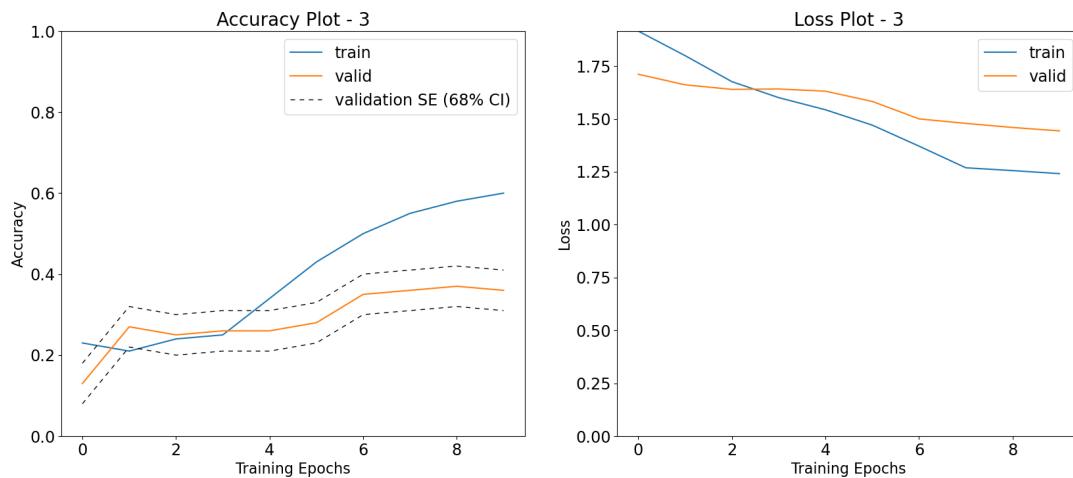
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 56s
Best Train Accuracy	0.6
Best Valid Accuracy	0.37
AUC	0.72
2*AUC-1	0.45
Standard Error	0.05

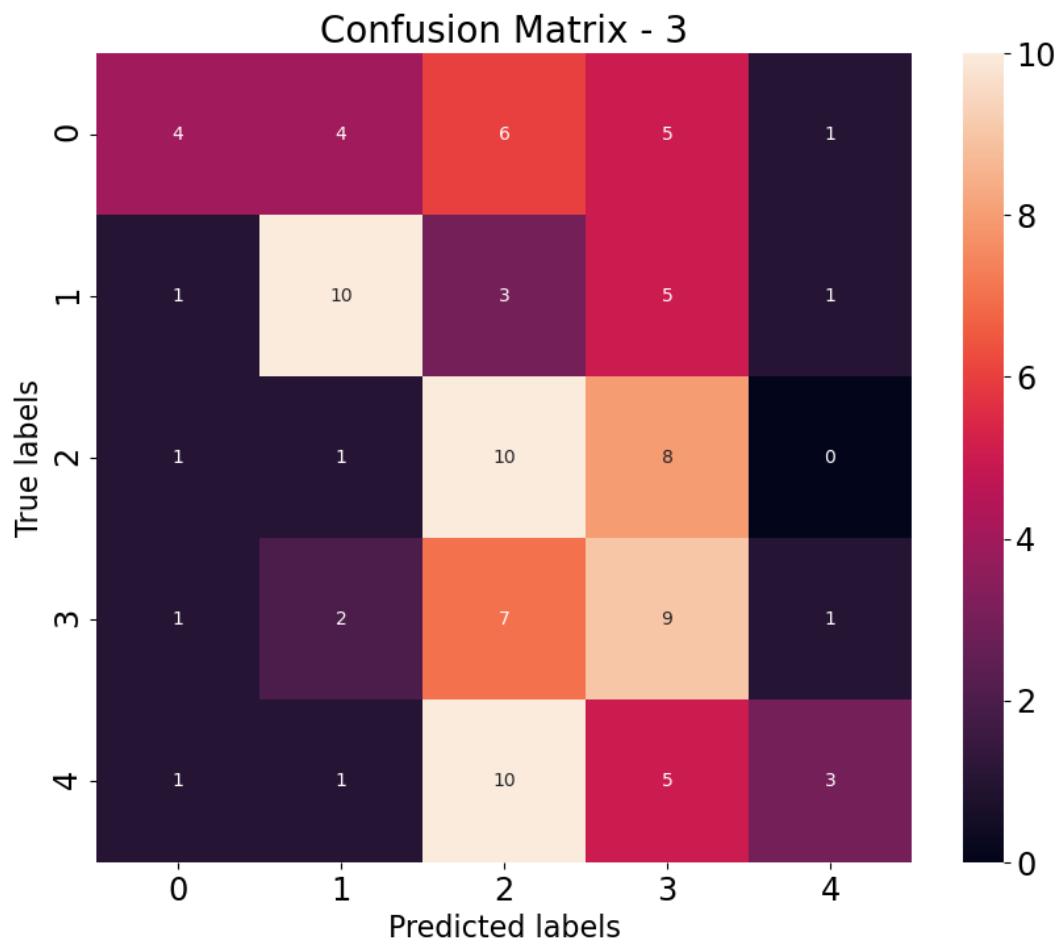
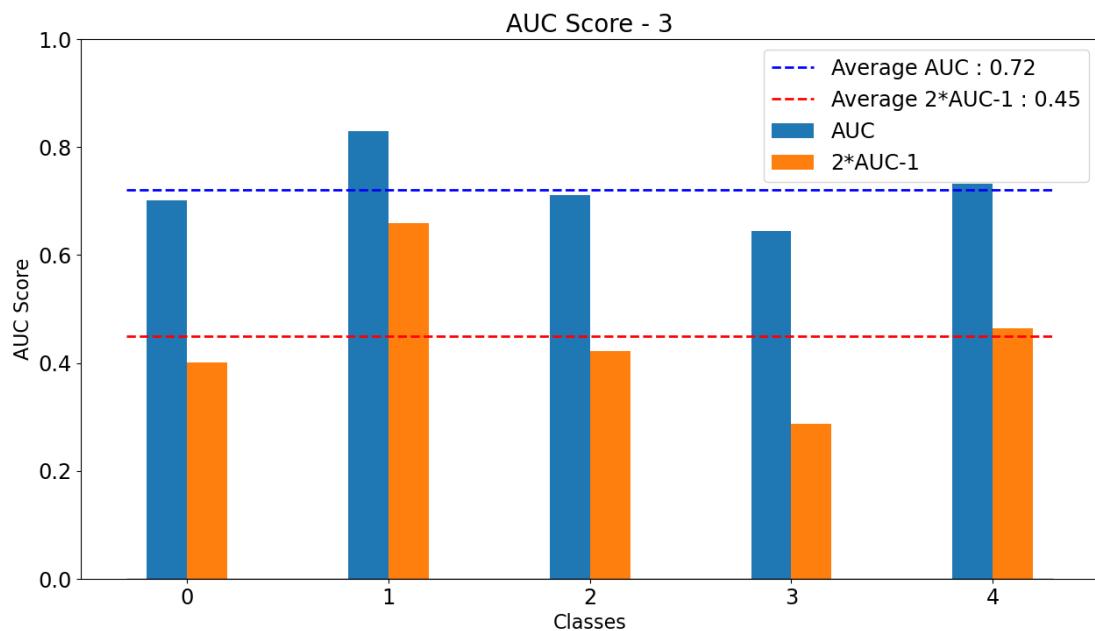
Categories

Category #	Category Name
0	blotchy
1	crystalline
2	lacelike
3	pitted
4	stratified

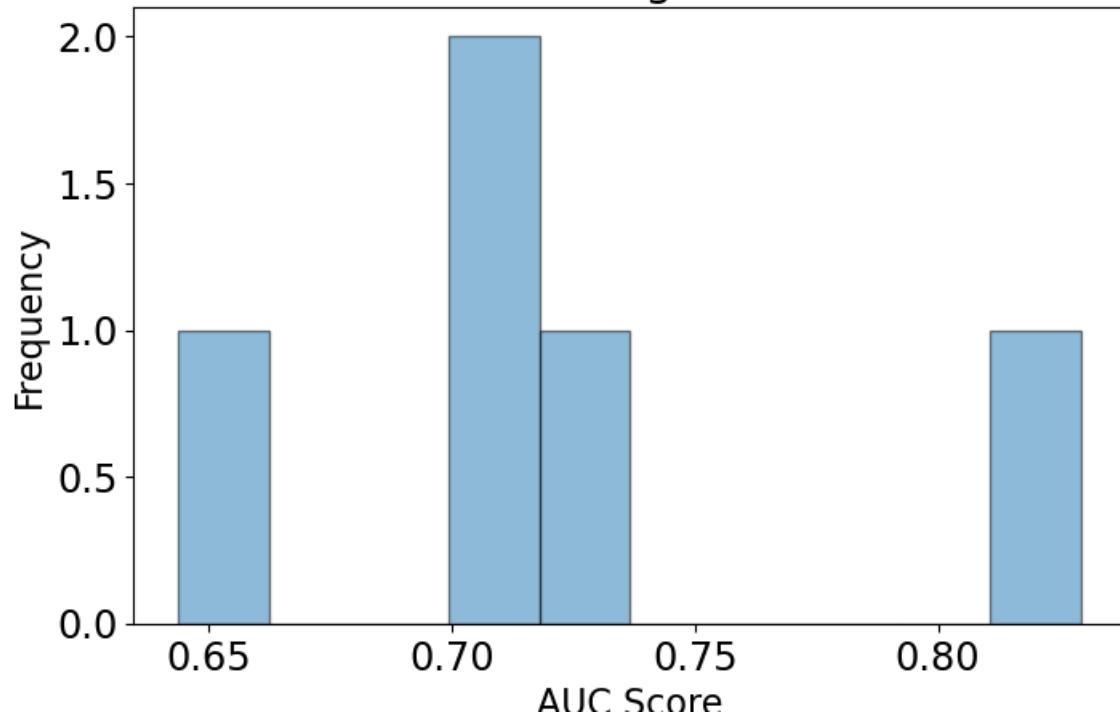
Accuracy Loss Plot



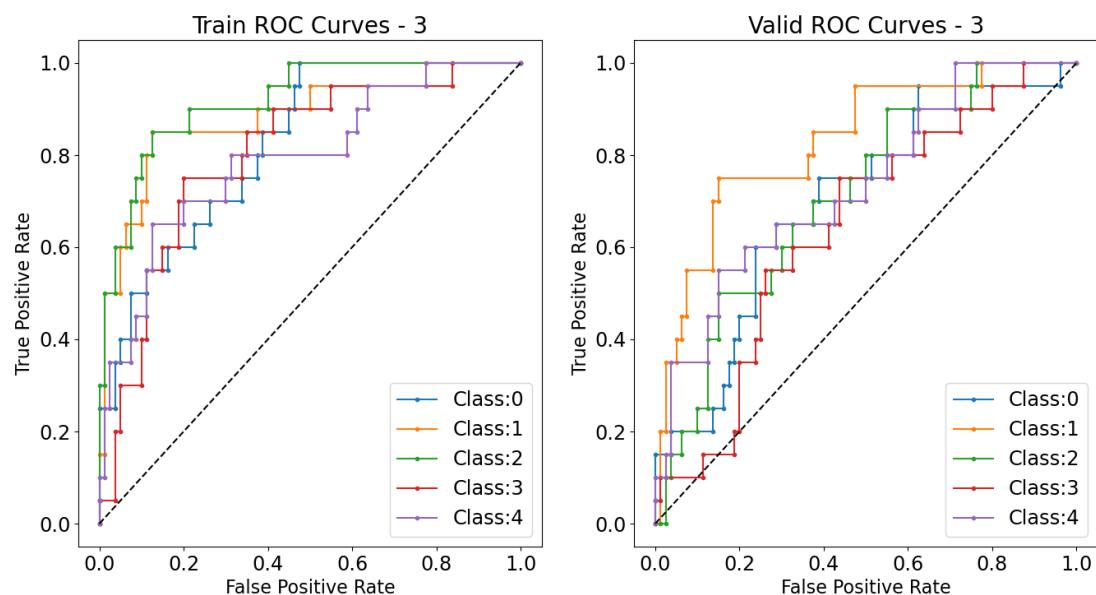
Confusion Matrix

**AUC****AUC Histogram**

AUC Histogram - 3



ROC Curves



Sample Images



Wrongly Classified Images

Orig lbl : pitted(3)
Pred lbl : lacelike(2)
b2267150-2c00-45f0-b77c-febd9e
eea895.jpg



Orig lbl : lacelike(2)
Pred lbl : pitted(3)
225beffe-0e2e-45f0-90a2-df2fe7
dc0a8b.jpg



Orig lbl : stratified(4)
Pred lbl : lacelike(2)
b2267150-2c00-45f0-b77c-febd9e
eea895.jpg



Orig lbl : stratified(4)
Pred lbl : pitted(3)
225beffe-0e2e-45f0-90a2-df2fe7
dc0a8b.jpg



Orig lbl : lacelike(2)
Pred lbl : pitted(3)
225beffe-0e2e-45f0-90a2-df2fe7
dc0a8b.jpg



Super-Category 4

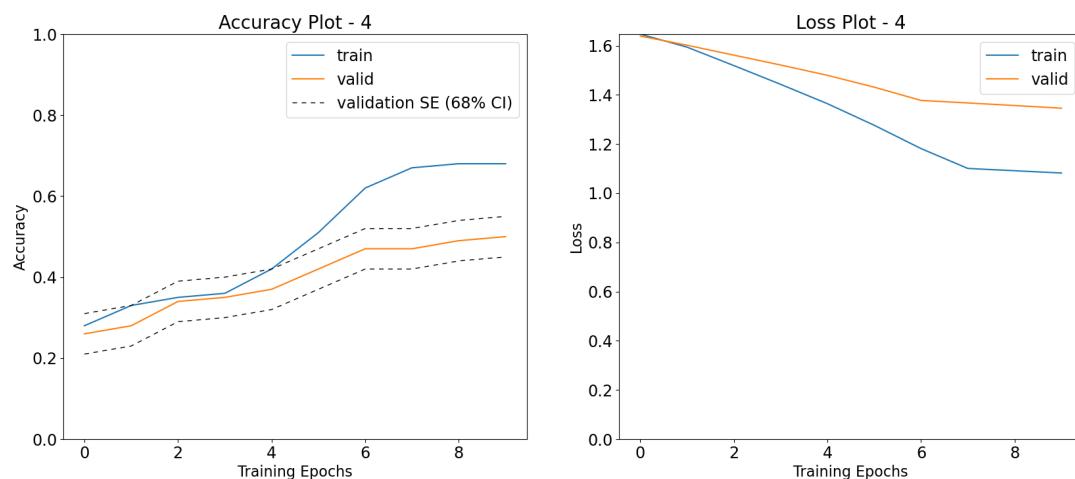
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 55s
Best Train Accuracy	0.68
Best Valid Accuracy	0.5
AUC	0.76
2*AUC-1	0.52
Standard Error	0.05

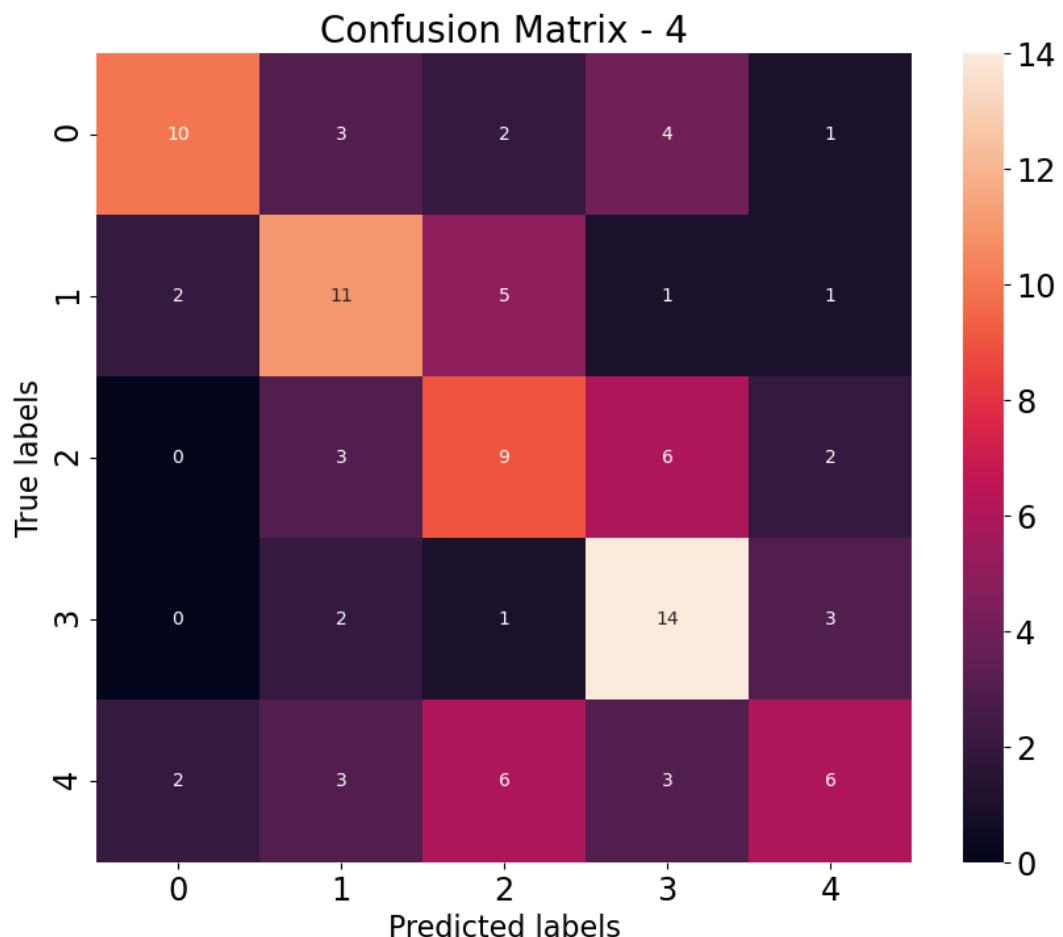
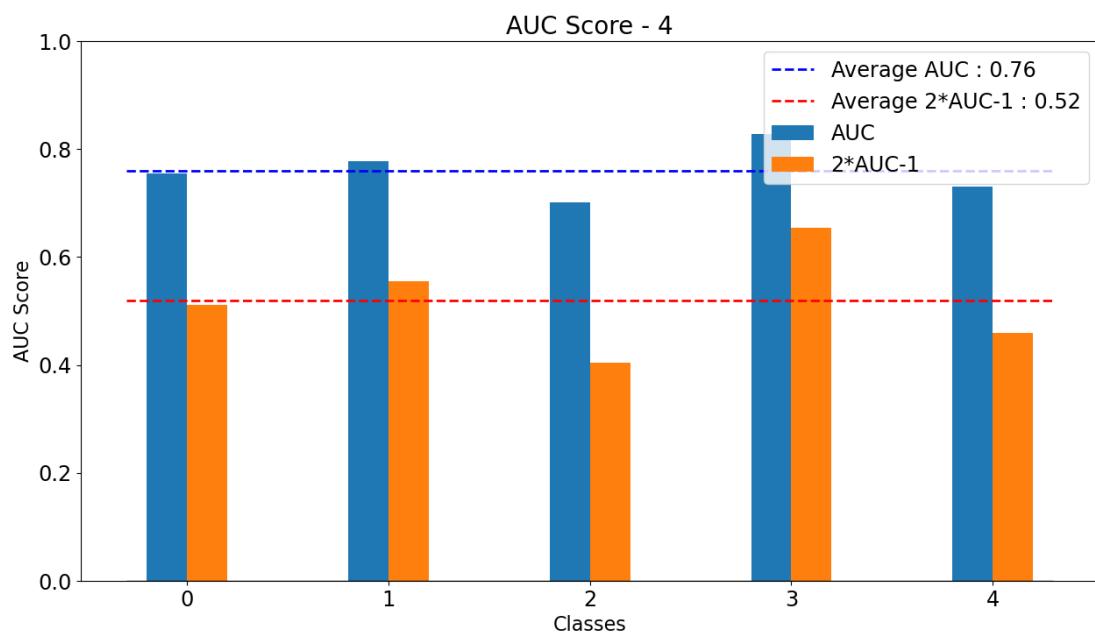
Categories

Category #	Category Name
0	crosshatched
1	honeycombed
2	scaly
3	spiralled
4	veined

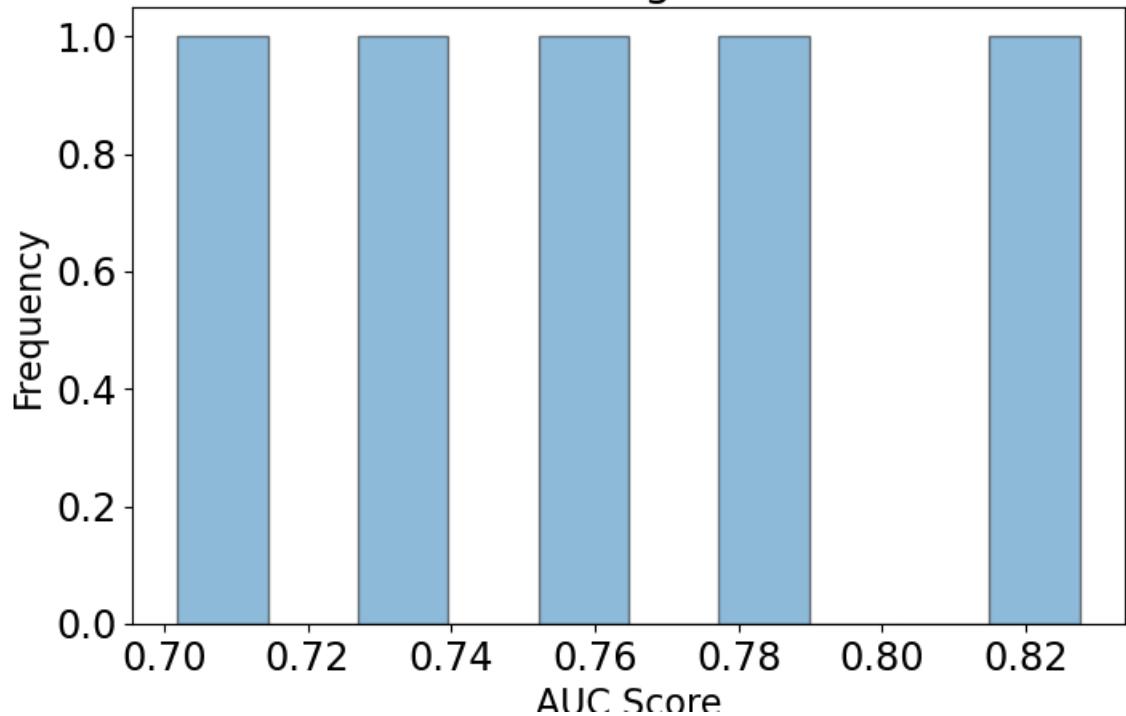
Accuracy Loss Plot



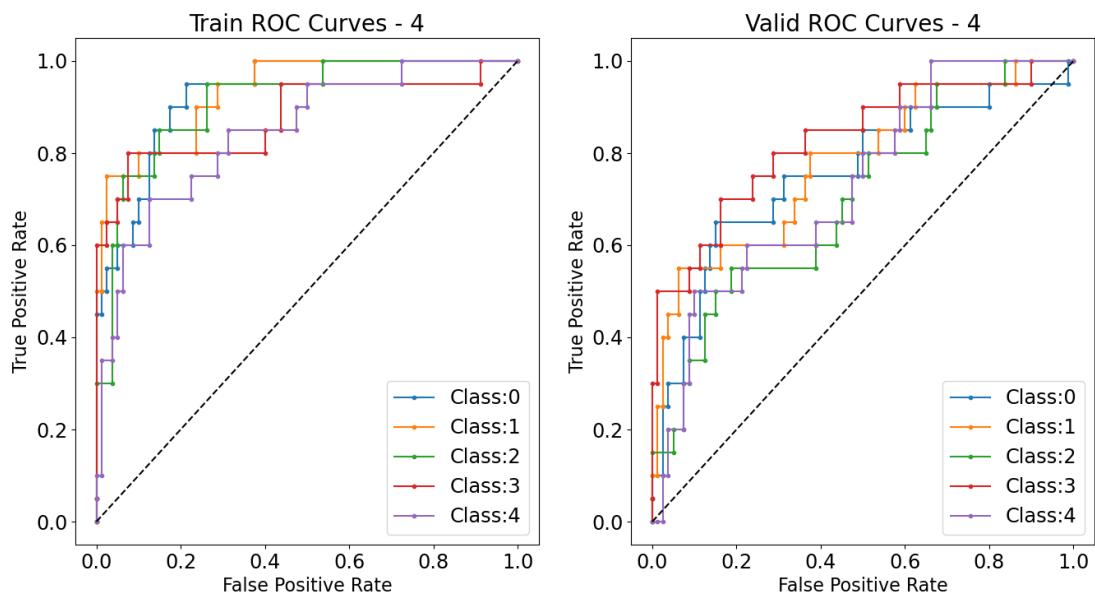
Confusion Matrix

**AUC****AUC Histogram**

AUC Histogram - 4



ROC Curves



Sample Images



Wrongly Classified Images

Orig lbl : scaly(2)
 Pred lbl : honeycombed(1)
 ee98a76c-8c20-4368-ad36-88f3f8
 8b2e7f.jpg



Orig lbl : veined(4)
 Pred lbl : honeycombed(1)
 ee98a76c-8c20-4368-ad36-88f3f8
 8b2e7f.jpg



Orig lbl : scaly(2)
 Pred lbl : spiralled(3)
 da492bd6-a355-42d4-b4f4-6fcba46
 7d56e4.jpg



Orig lbl : veined(4)
 Pred lbl : spiralled(3)
 da492bd6-a355-42d4-b4f4-6fcba46
 7d56e4.jpg



Orig lbl : crosshatched(0)
 Pred lbl : scaly(2)
 72f4f755-2a54-4c18-80da-ef33d77c89a0.jpg



Super-Category 5

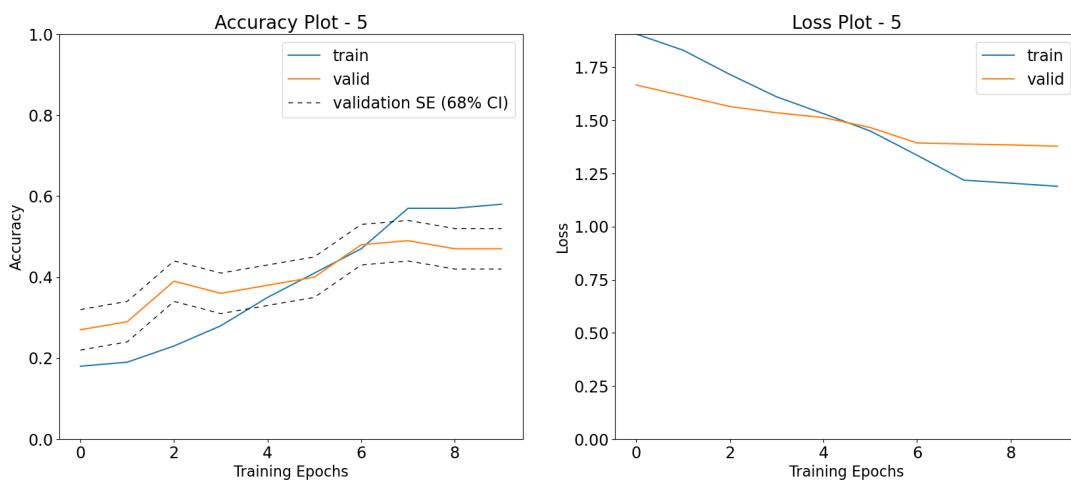
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 55s
Best Train Accuracy	0.58
Best Valid Accuracy	0.49
AUC	0.78
2*AUC-1	0.56
Standard Error	0.05

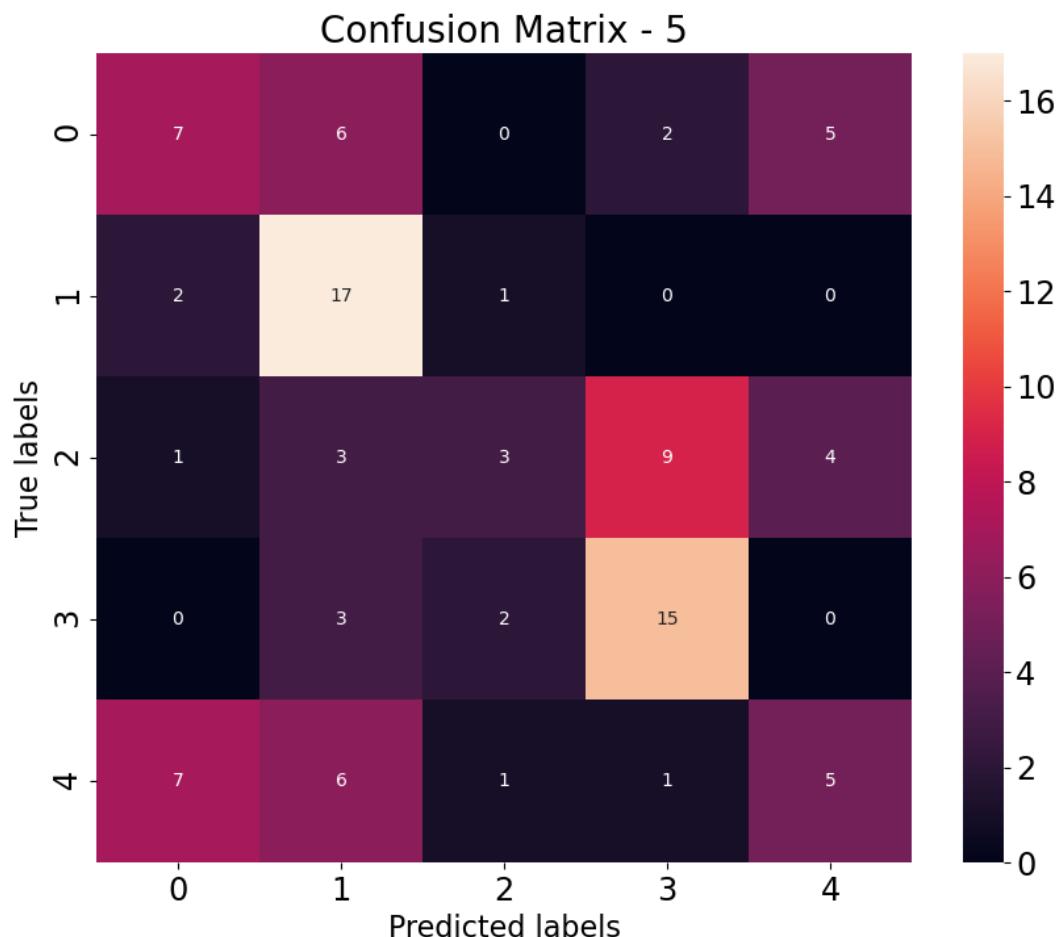
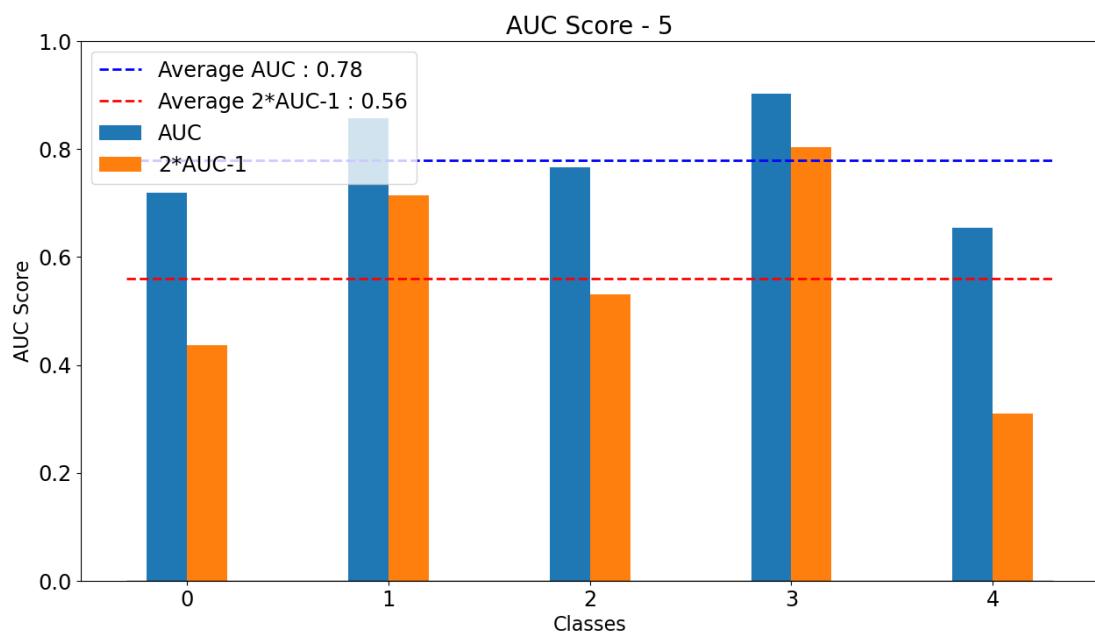
Categories

Category #	Category Name
0	bumpy
1	gauzy
2	perforated
3	polka-dotted
4	sprinkled

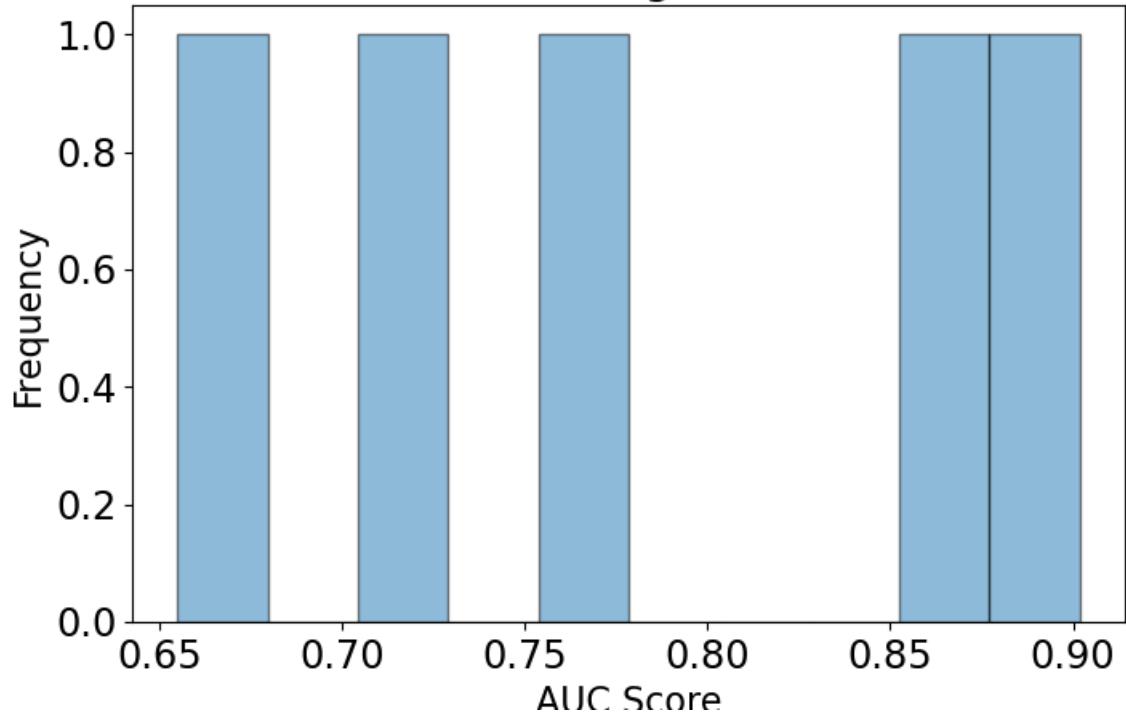
Accuracy Loss Plot



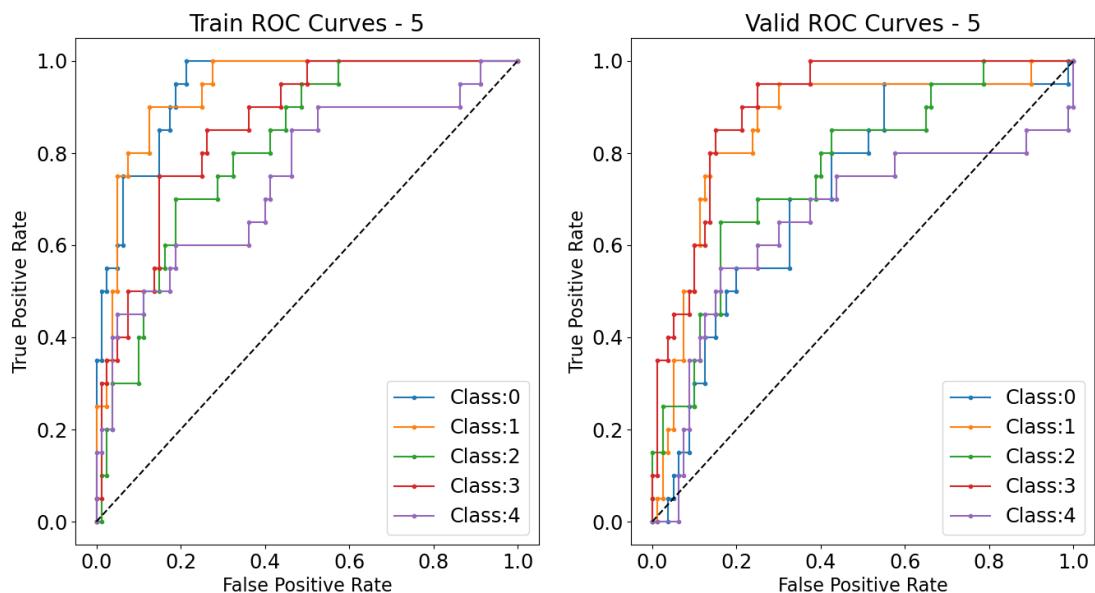
Confusion Matrix

**AUC****AUC Histogram**

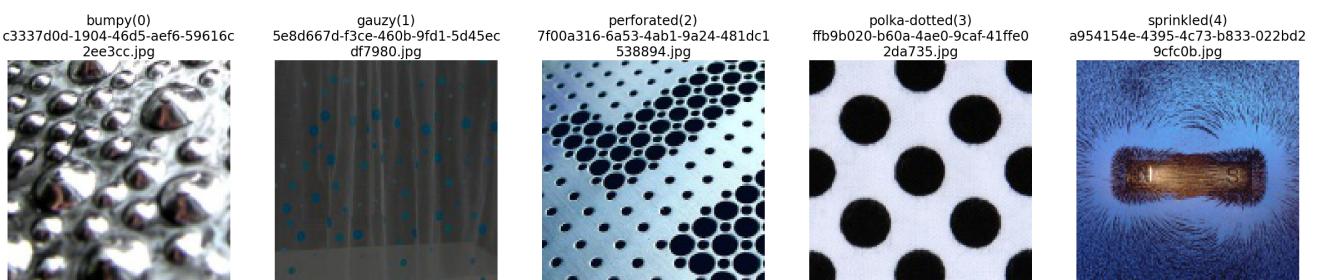
AUC Histogram - 5



ROC Curves



Sample Images

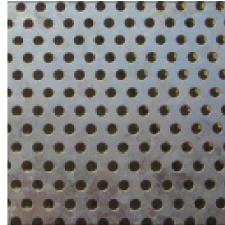


Wrongly Classified Images

Orig lbl : polka-dotted(3)
Pred lbl : perforated(2)
cf211b76-8adc-492d-9af6-4ba302
a676c7.jpg



Orig lbl : perforated(2)
Pred lbl : polka-dotted(3)
de42e58a-fee7-40ef-b9fc-830d31
4e87f5.jpg



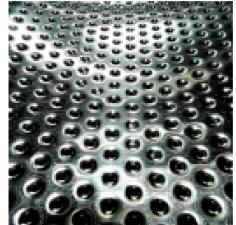
Orig lbl : sprinkled(4)
Pred lbl : gauzy(1)
50101fa0-7e1f-4637-929e-1bef84
337f79.jpg



Orig lbl : sprinkled(4)
Pred lbl : bumpy(0)
26266d93-0425-4479-a3a3-45a4a3
b3769b.jpg



Orig lbl : perforated(2)
Pred lbl : polka-dotted(3)
de42e58a-fee7-40ef-b9fc-830d31
4e87f5.jpg



Super-Category 6

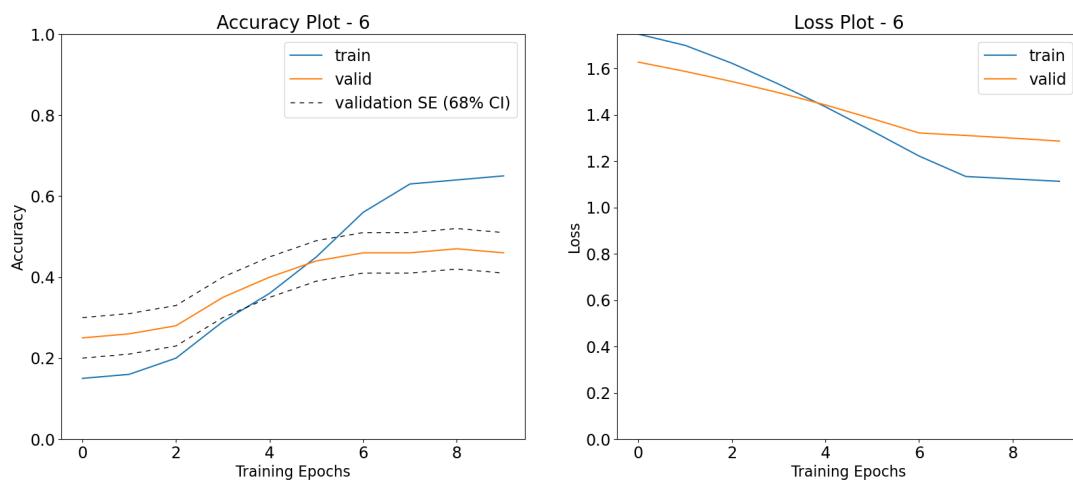
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 55s
Best Train Accuracy	0.65
Best Valid Accuracy	0.47
AUC	0.81
2*AUC-1	0.62
Standard Error	0.05

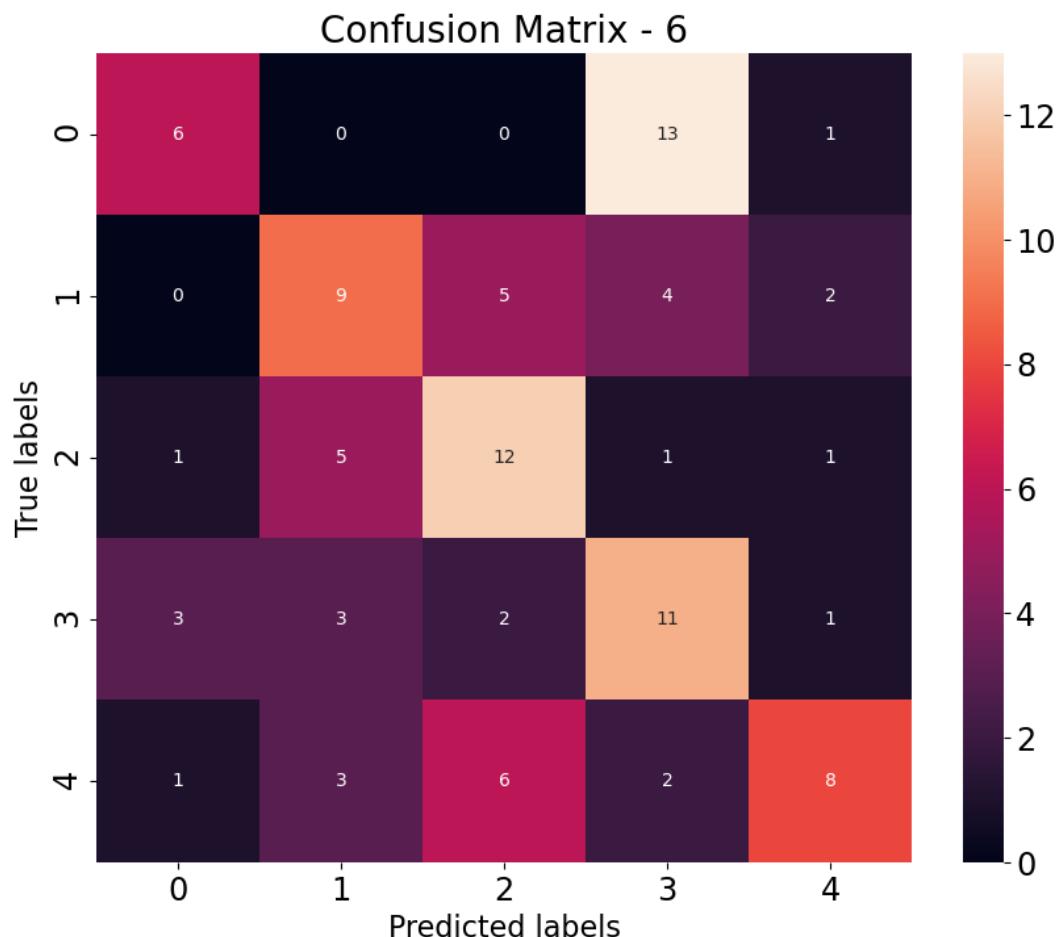
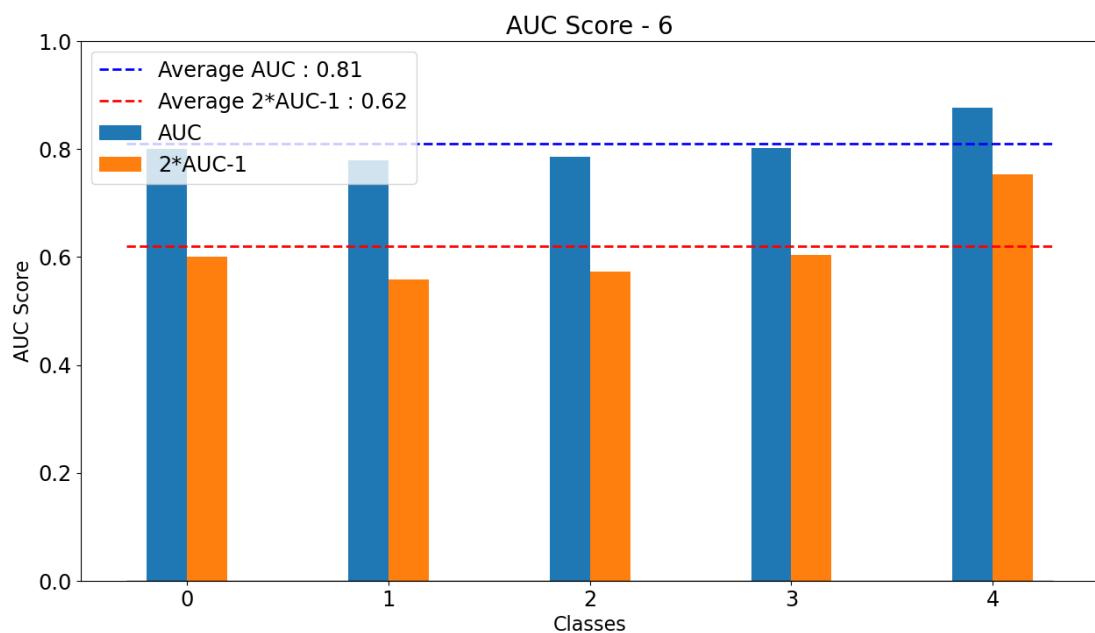
Categories

Category #	Category Name
0	frilly
1	marbled
2	matted
3	smeared
4	zigzagged

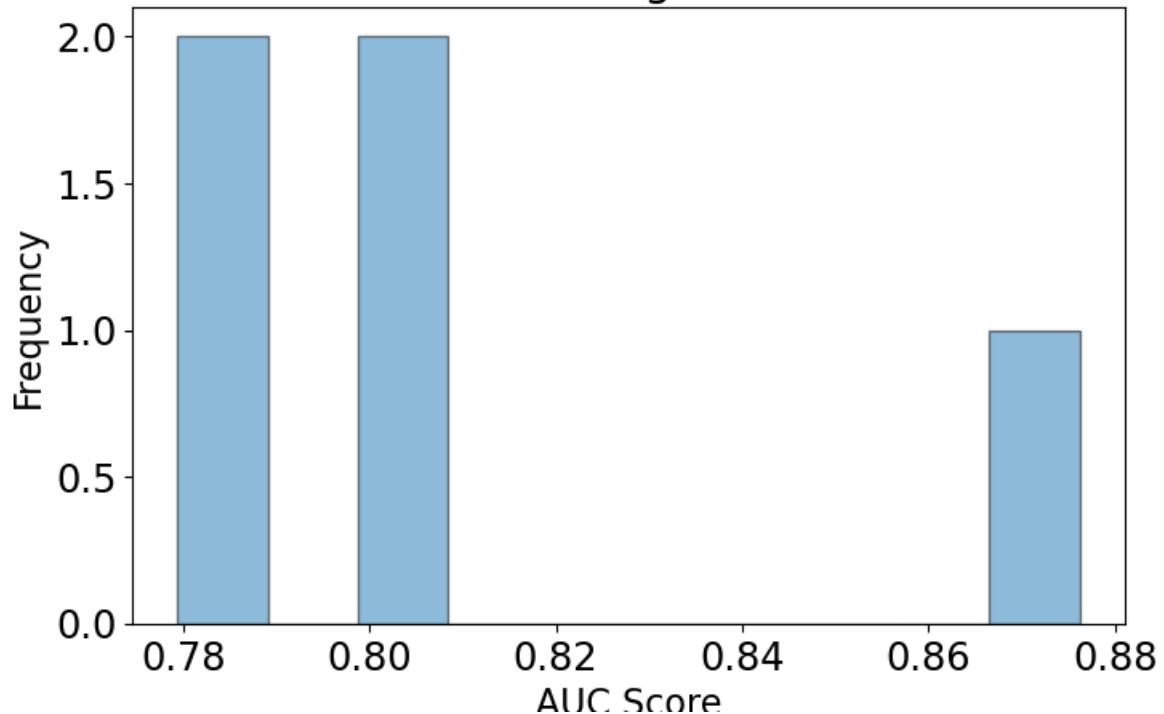
Accuracy Loss Plot



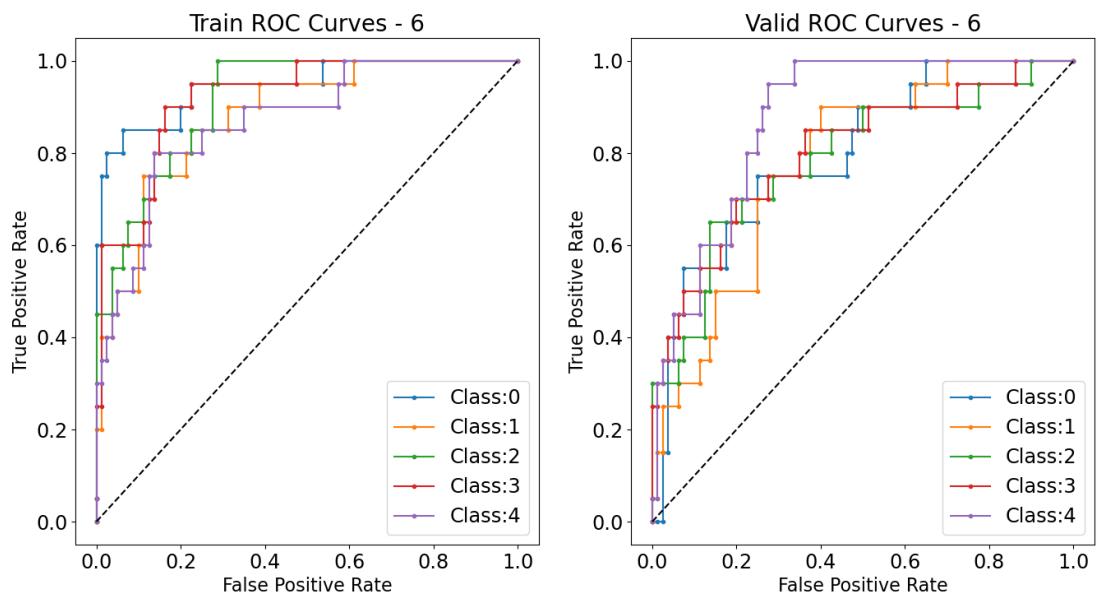
Confusion Matrix

**AUC****AUC Histogram**

AUC Histogram - 6



ROC Curves



Sample Images



Wrongly Classified Images

Orig lbl : zigzagged(4)
Pred lbl : matted(2)
1bd61aba-acf6-4d43-8cd9-922bd9
f8046a.jpg



Orig lbl : zigzagged(4)
Pred lbl : matted(2)
1bd61aba-acf6-4d43-8cd9-922bd9
f8046a.jpg



Orig lbl : matted(2)
Pred lbl : marbled(1)
8b231cee-e70b-4347-9626-9b21d0
bdf968.jpg



Orig lbl : smeared(3)
Pred lbl : marbled(1)
8b231cee-e70b-4347-9626-9b21d0
bdf968.jpg



Orig lbl : frilly(0)
Pred lbl : smeared(3)
32ceeb91-b8f4-4eb2-8b37-c3b272
848f48.jpg



Super-Category 7

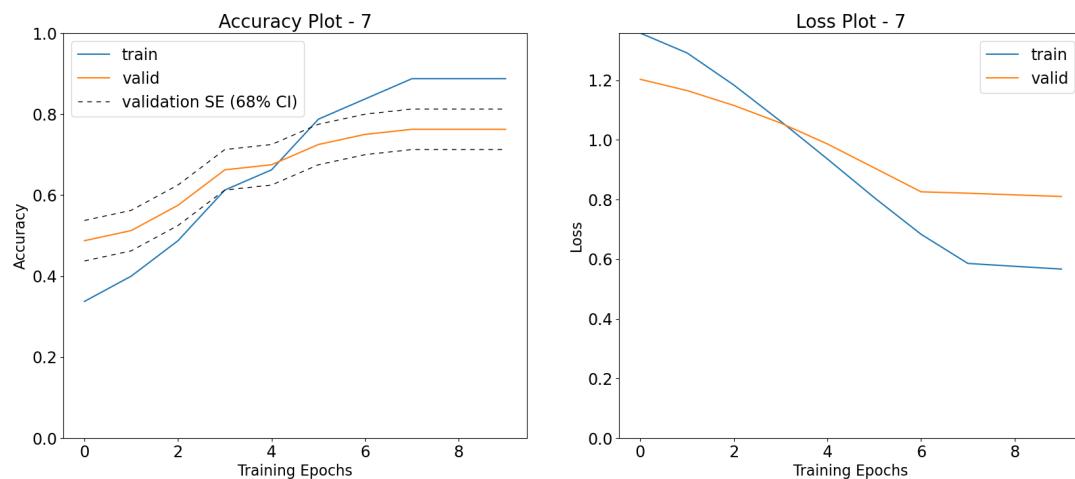
Statistics

Total Images	160
Train Images	80
Valid Images	80
Training Time	0m 46s
Best Train Accuracy	0.89
Best Valid Accuracy	0.76
AUC	0.91
2*AUC-1	0.82
Standard Error	0.05

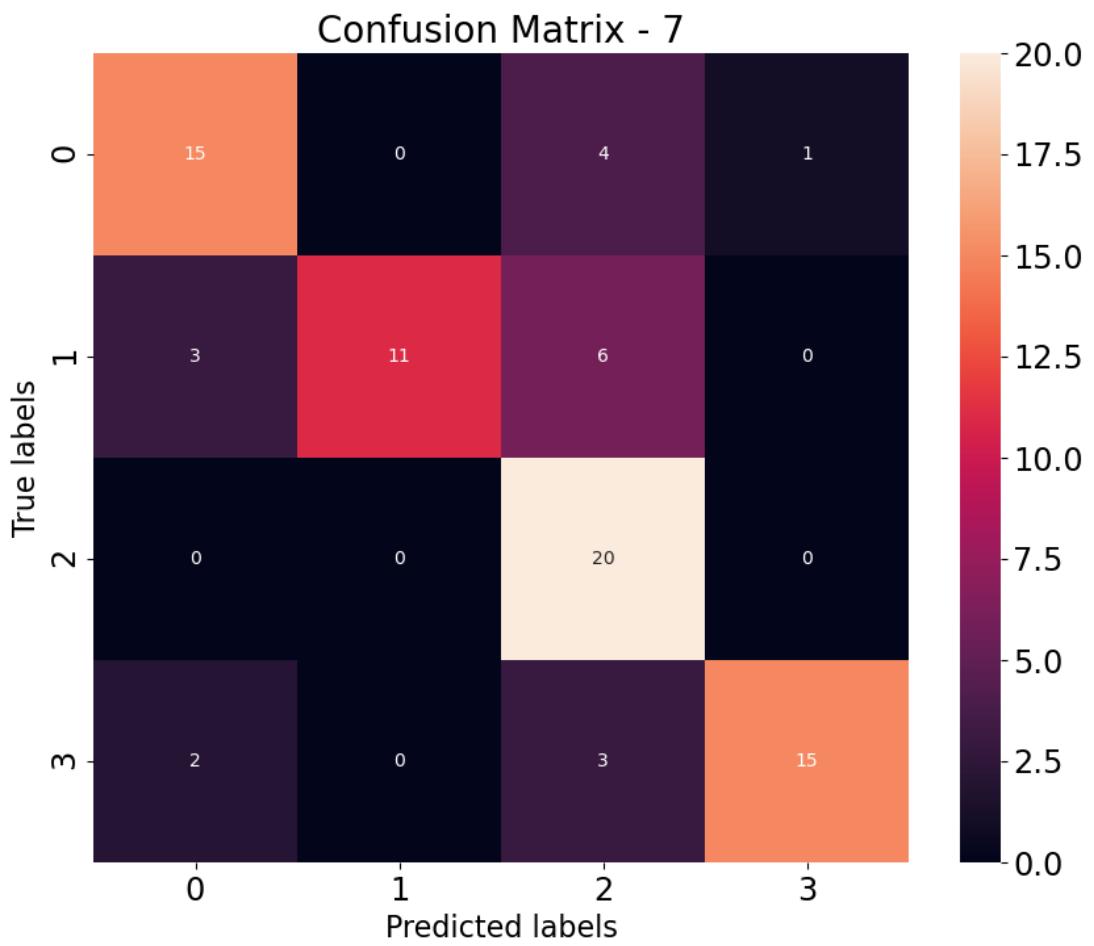
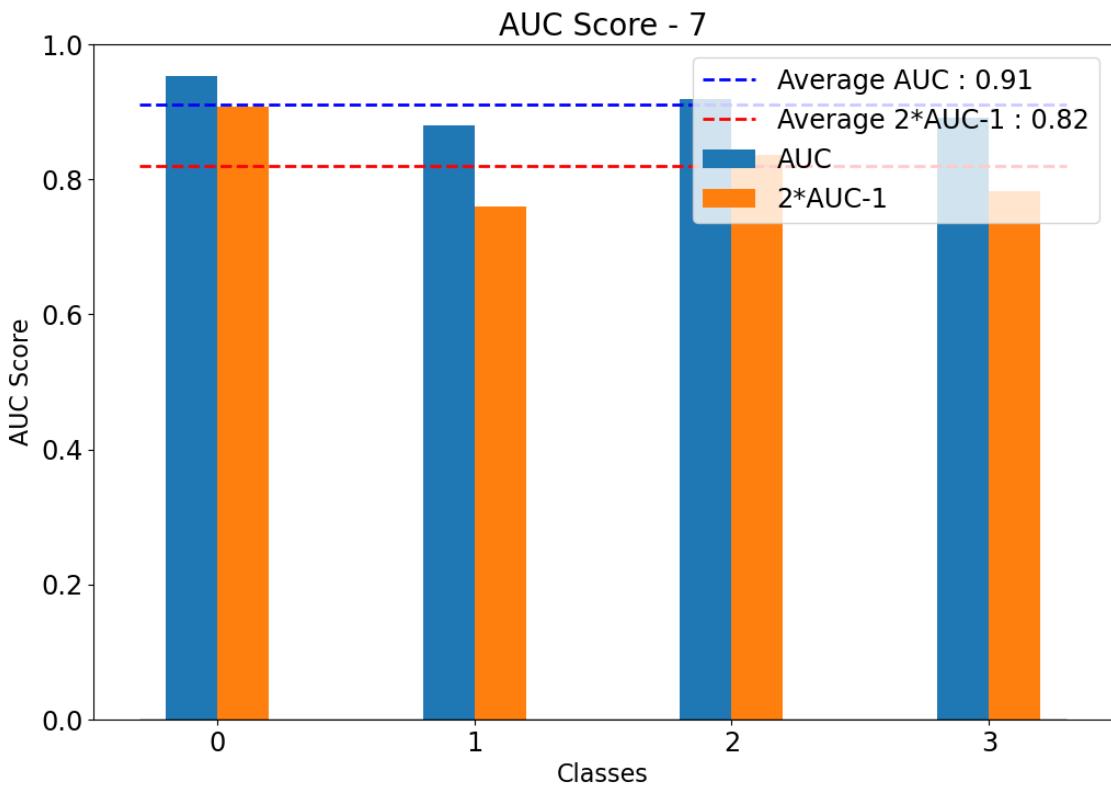
Categories

Category #	Category Name
0	freckled
1	meshed
2	potholed
3	striped

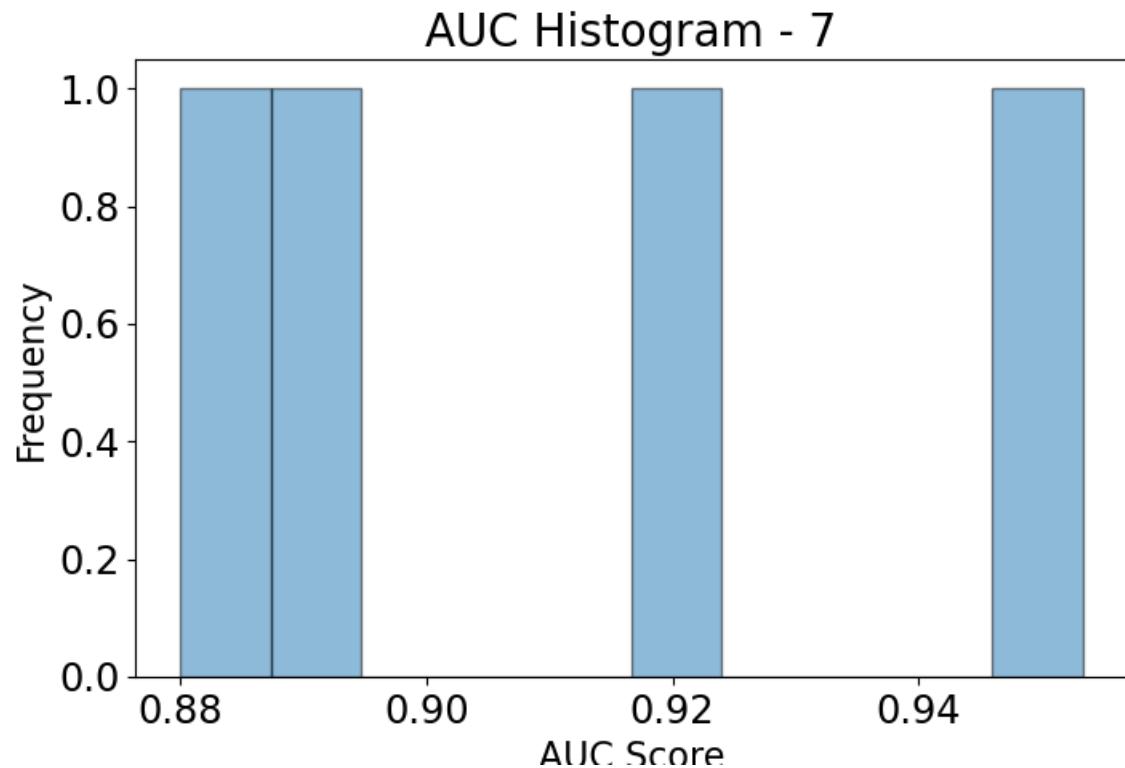
Accuracy Loss Plot



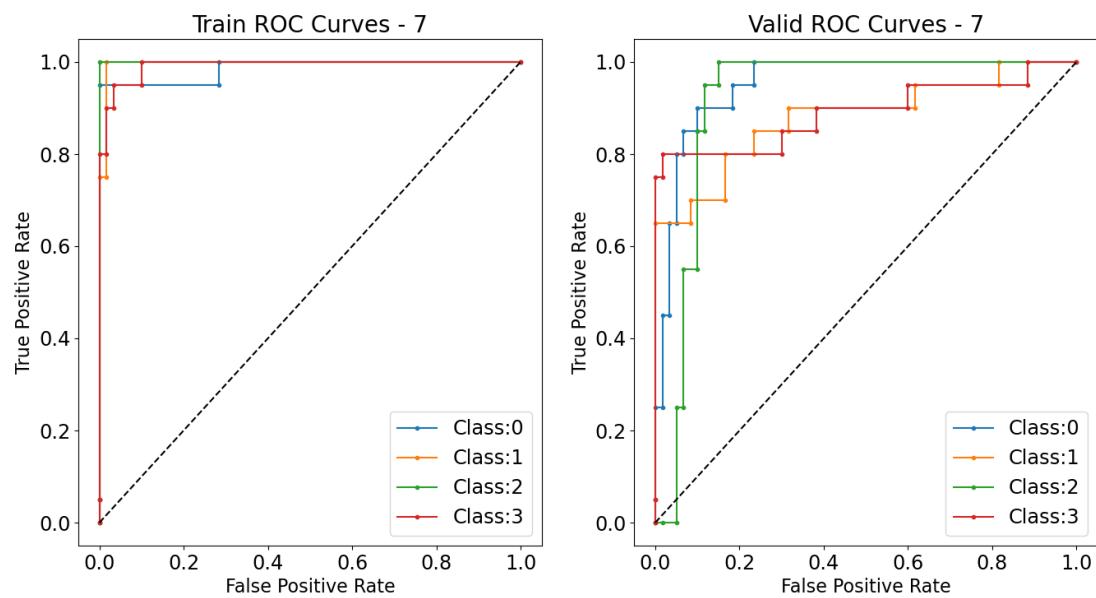
Confusion Matrix

**AUC**

AUC Histogram



ROC Curves



Sample Images

freckled(0)
928b90ac-9ccd-490e-b097-b85705
e67c36.jpg



meshed(1)
f8a40d04-ccdf-4776-a89d-666cff
a8caaе.jpg



potholed(2)
6174dce7-09d0-4441-9b1f-c2d1b9
3bd6f6.jpg



striped(3)
ea5be4ac-216e-4ec7-a221-727b4c
a37e81.jpg



Wrongly Classified Images

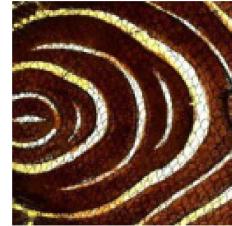
Orig lbl : freckled(0)
Pred lbl : potholed(2)
6d2dab2f-0d17-4812-bcf0-36fc2e
cea507.jpg



Orig lbl : meshed(1)
Pred lbl : potholed(2)
6d2dab2f-0d17-4812-bcf0-36fc2e
cea507.jpg



Orig lbl : striped(3)
Pred lbl : freckled(0)
92560274-3f30-475b-9c73-f9e5c3
7b9d5b.jpg



Orig lbl : meshed(1)
Pred lbl : potholed(2)
6d2dab2f-0d17-4812-bcf0-36fc2e
cea507.jpg



Orig lbl : striped(3)
Pred lbl : potholed(2)
6d2dab2f-0d17-4812-bcf0-36fc2e
cea507.jpg



Super-Category 8

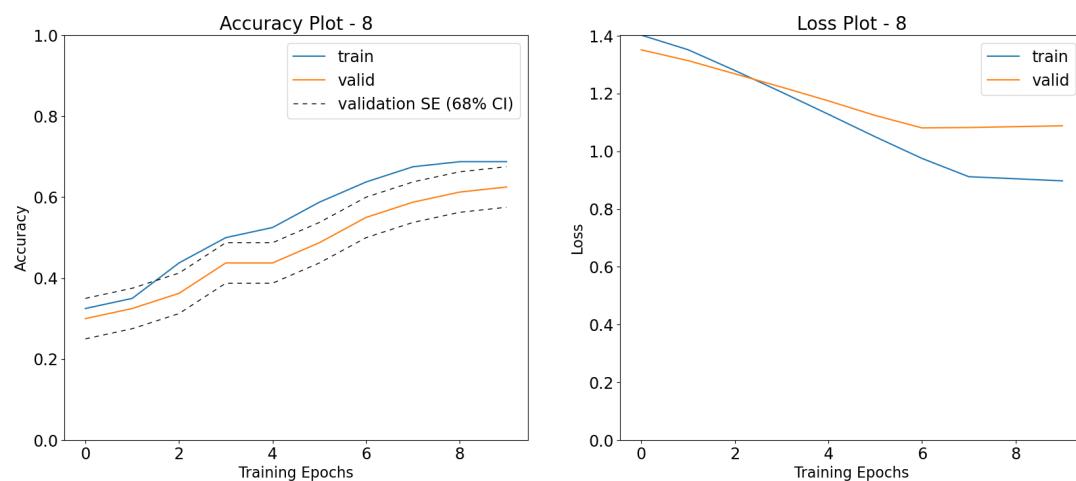
Statistics

Total Images	160
Train Images	80
Valid Images	80
Training Time	0m 46s
Best Train Accuracy	0.69
Best Valid Accuracy	0.62
AUC	0.82
2*AUC-1	0.64
Standard Error	0.05

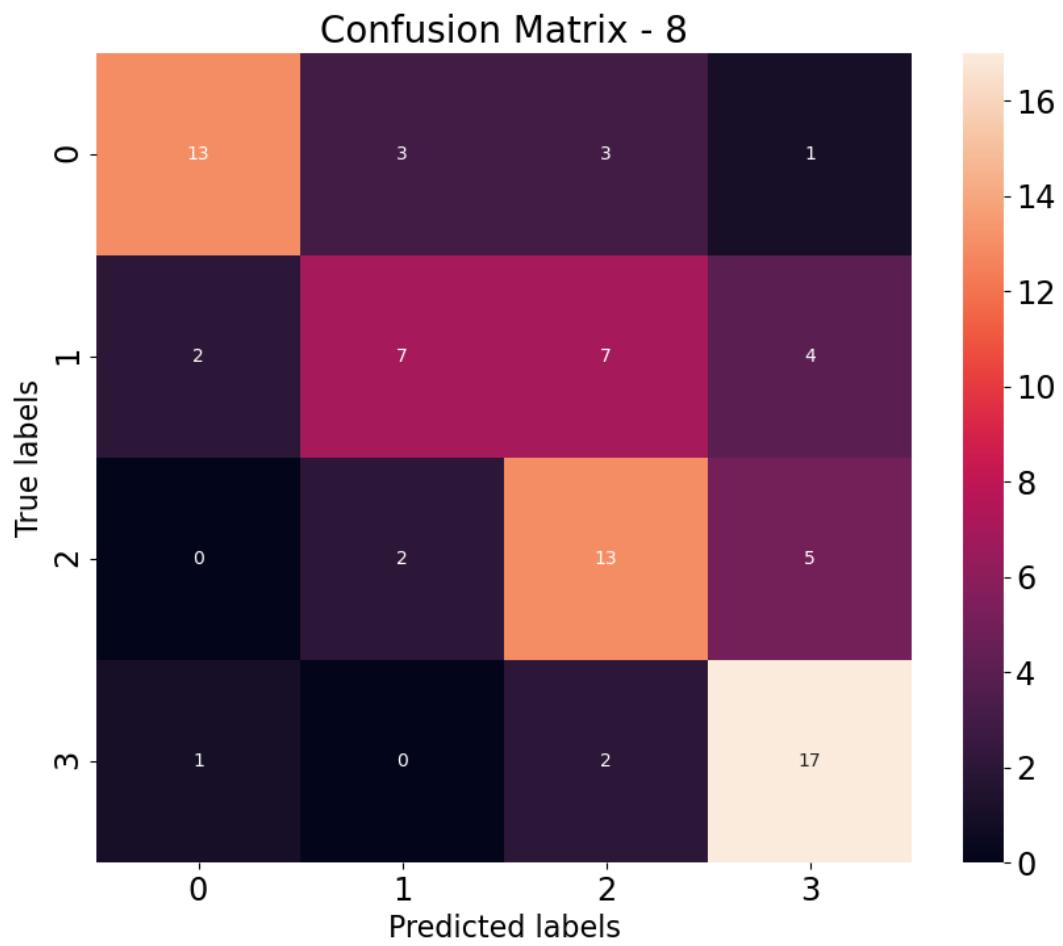
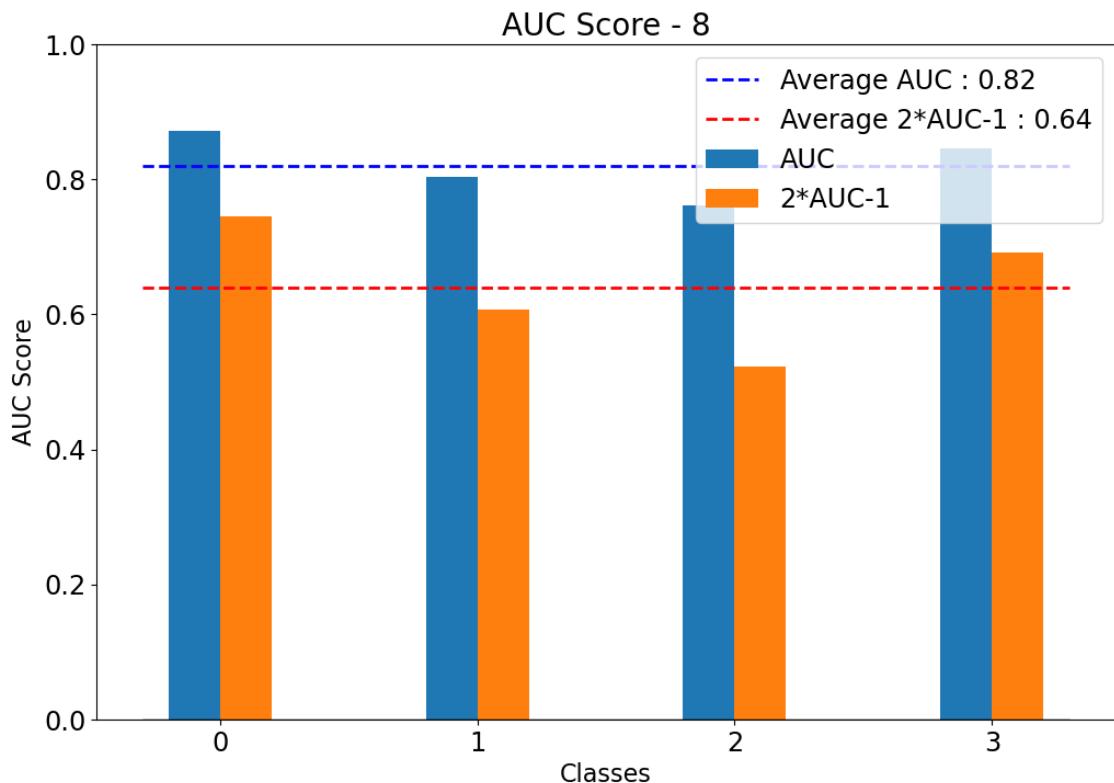
Categories

Category #	Category Name
0	grid
1	lined
2	pleated
3	wrinkled

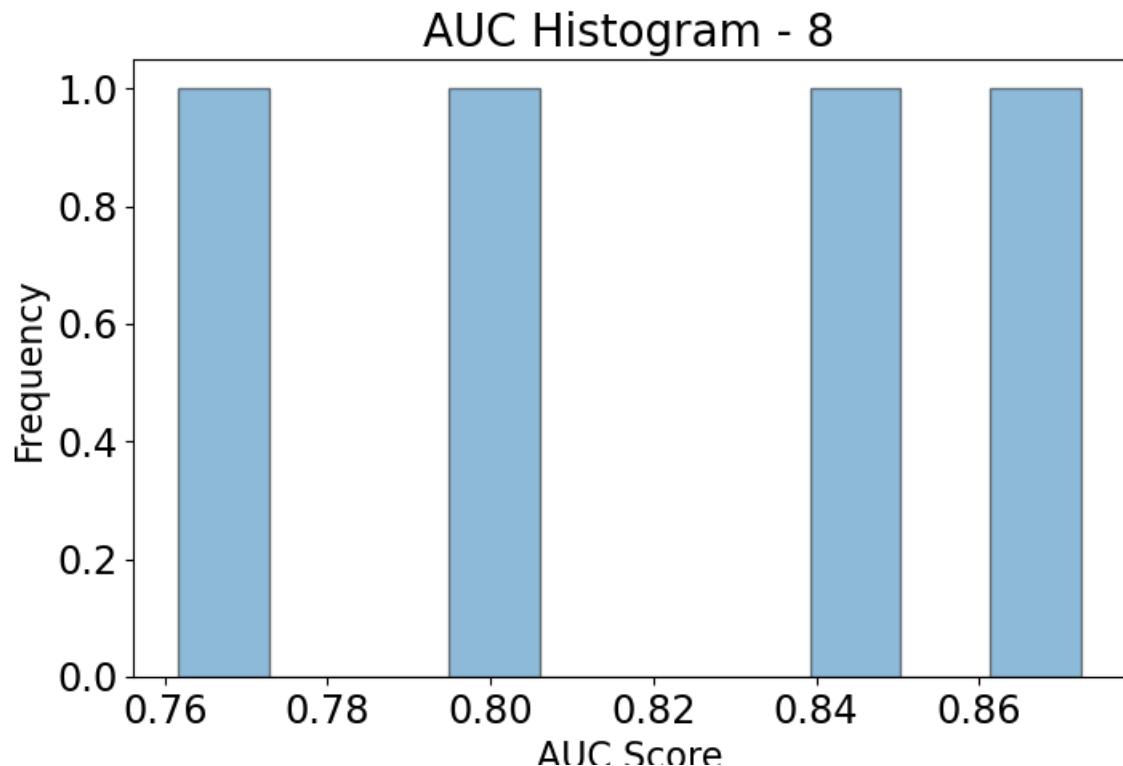
Accuracy Loss Plot



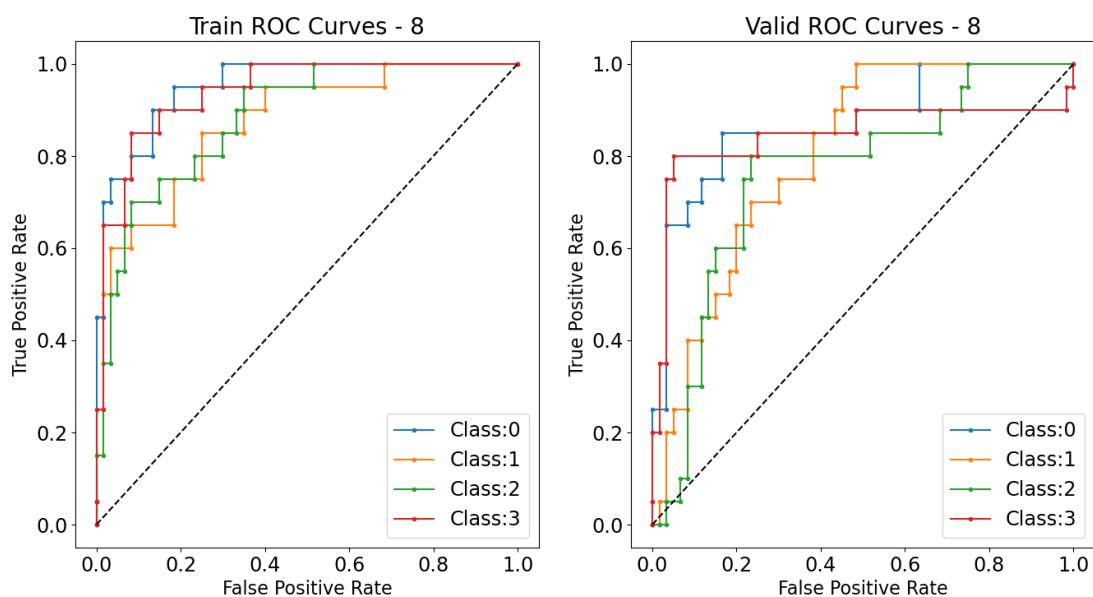
Confusion Matrix

**AUC**

AUC Histogram



ROC Curves

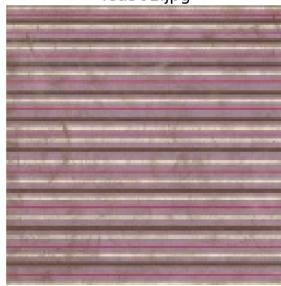


Sample Images

grid(0)
977d7666-2a0c-4ac1-9886-7dc414
ddcc48.jpg



lined(1)
9c64baa1-f504-4d06-b9c3-83f80e
fea561.jpg



pleated(2)
e61c6e0c-4c46-42bd-a342-ae22da
44899d.jpg



wrinkled(3)
585f680e-c26a-429d-9b48-1d1352
b40f90.jpg



Wrongly Classified Images

Orig lbl : wrinkled(3)
Pred lbl : pleated(2)
6b198b1d-884d-4cff-
be5c-031522f5b419.jpg



Orig lbl : lined(1)
Pred lbl : pleated(2)
6b198b1d-884d-4cff-
be5c-031522f5b419.jpg



Orig lbl : lined(1)
Pred lbl : wrinkled(3)
af97803c-41b2-41fe-abf3-a64aaafaddb1a.jpg



Orig lbl : wrinkled(3)
Pred lbl : grid(0)
10fa4e68-c69b-4ce1-bb3f-fe6586
448cce.jpg



Orig lbl : lined(1)
Pred lbl : grid(0)
10fa4e68-c69b-4ce1-bb3f-fe6586
448cce.jpg



Super-Category 9

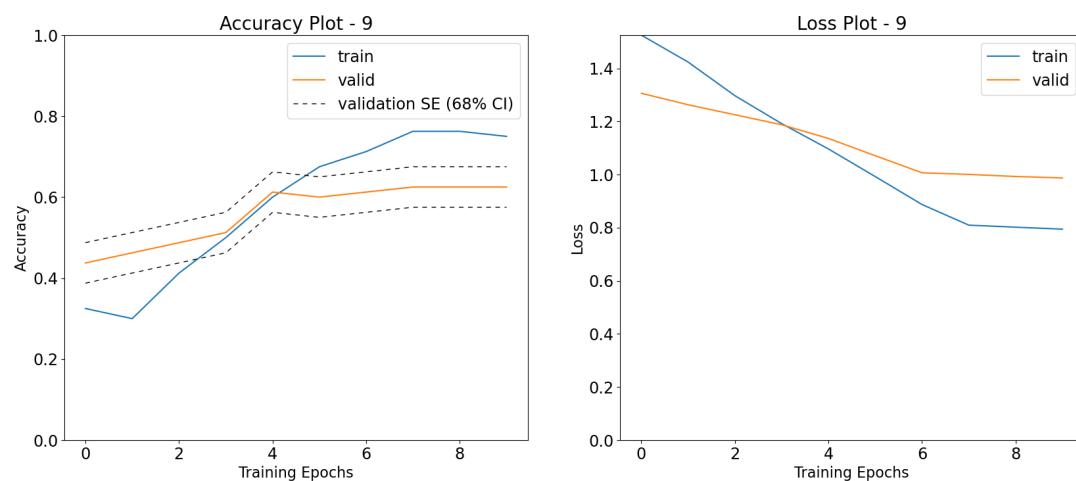
Statistics

Total Images	160
Train Images	80
Valid Images	80
Training Time	0m 47s
Best Train Accuracy	0.76
Best Valid Accuracy	0.62
AUC	0.87
2*AUC-1	0.75
Standard Error	0.05

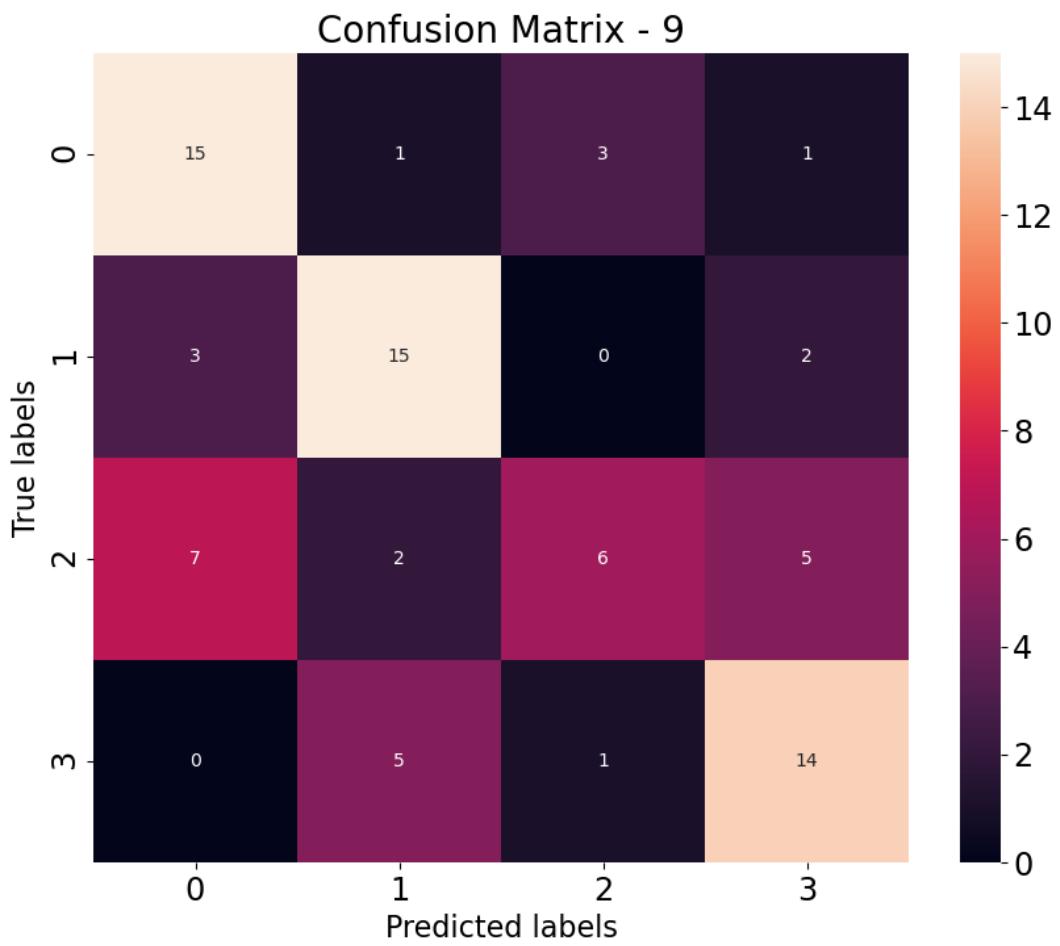
Categories

Category #	Category Name
0	cracked
1	grooved
2	porous
3	swirly

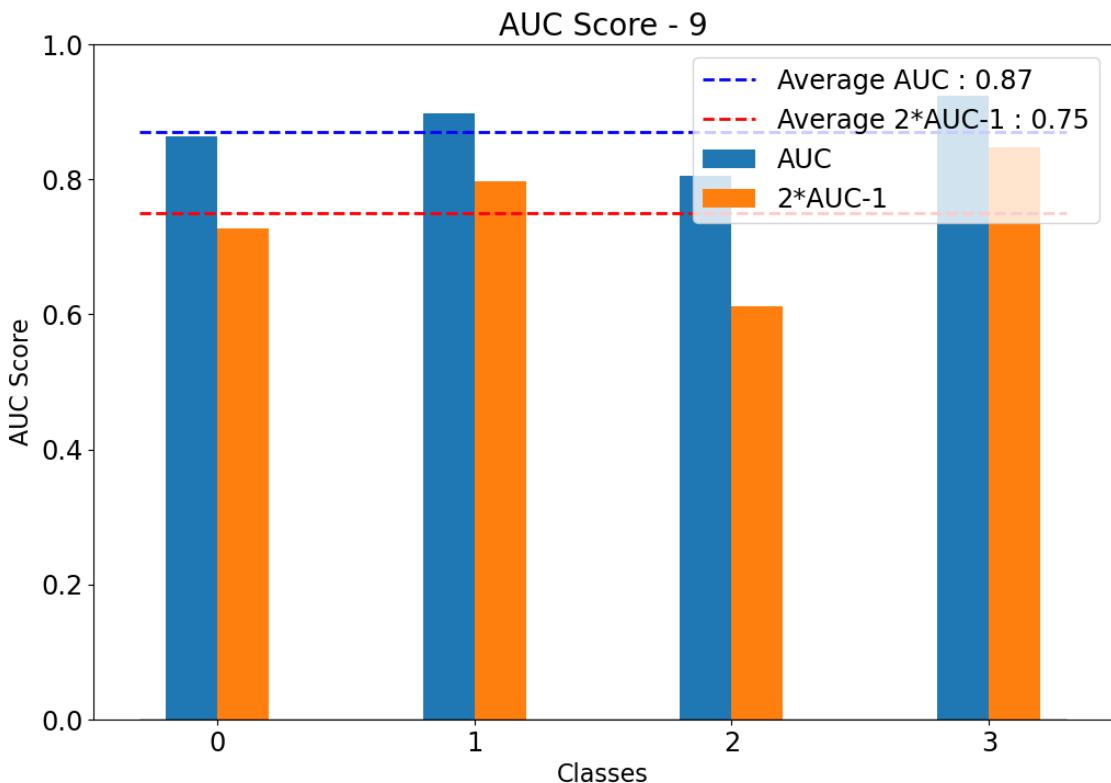
Accuracy Loss Plot



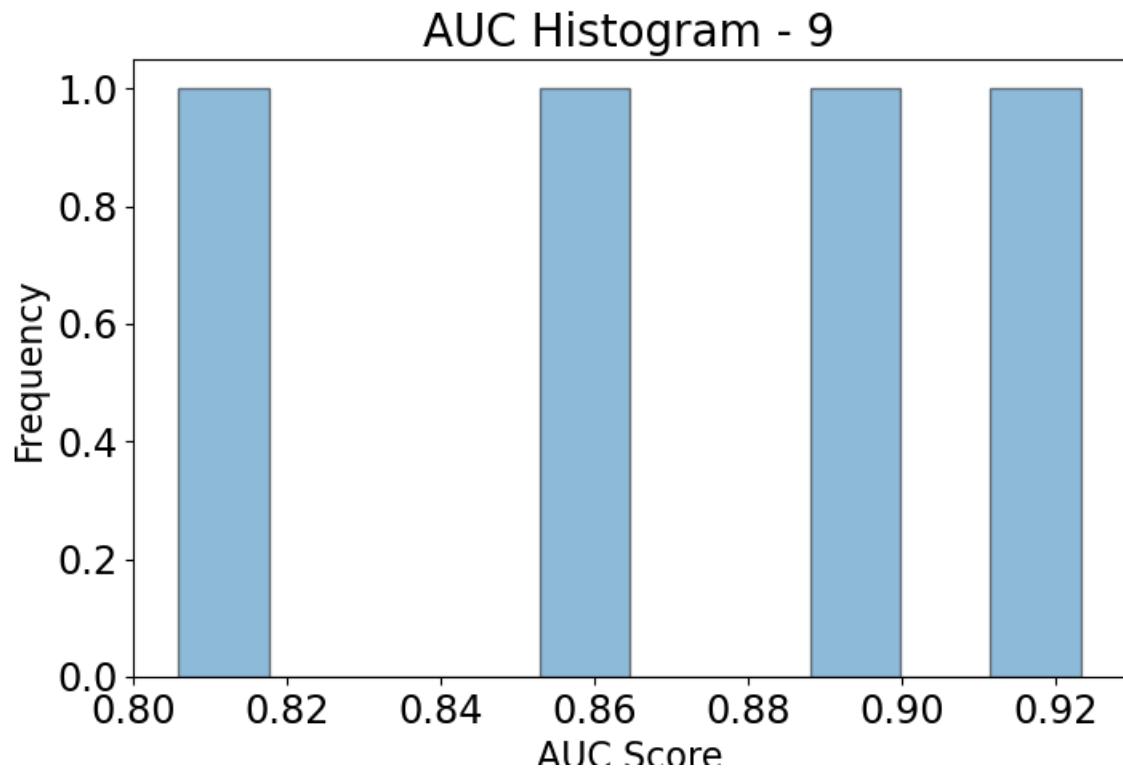
Confusion Matrix



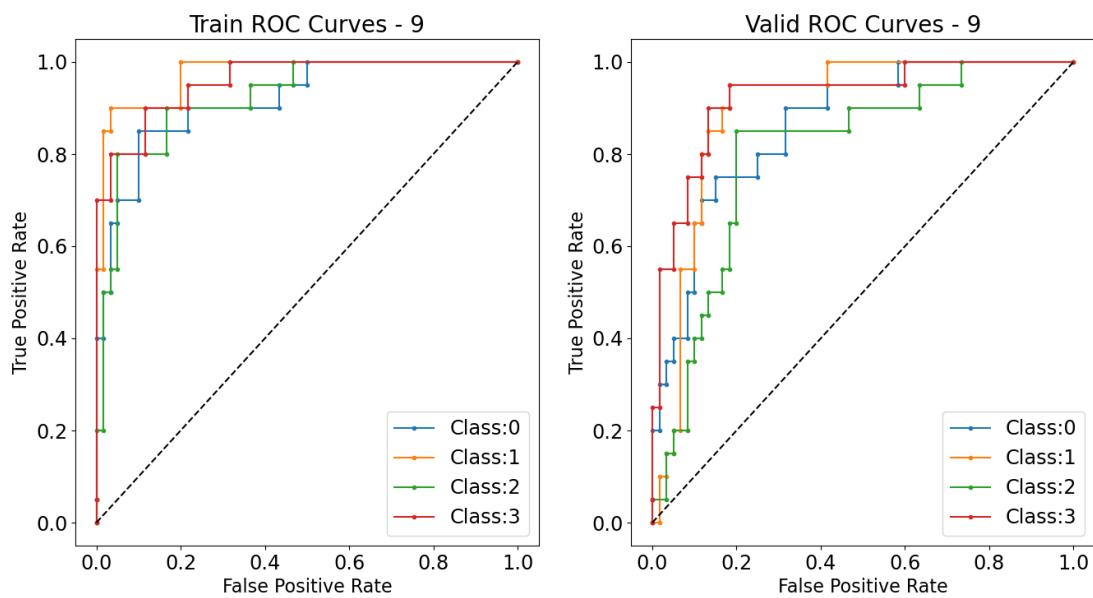
AUC



AUC Histogram



ROC Curves



Sample Images

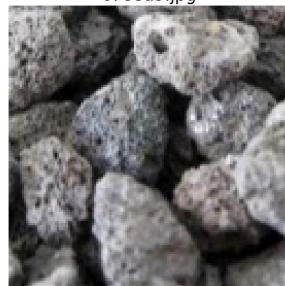
cracked(0)
e0f970e3-77c2-4c26-894e-7cd825
0a7b92.jpg



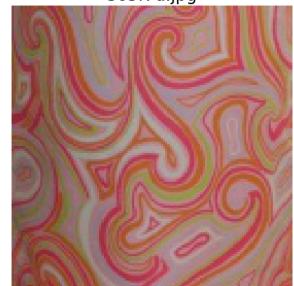
grooved(1)
0f34631b-422e-49b1-a662-57345b
30280f.jpg



porous(2)
a16b98b1-b30a-4450-9a6d-a95f4f
0788a9.jpg



swirly(3)
2671a316-ffd2-47d5-8ba7-68aac7
565f7d.jpg

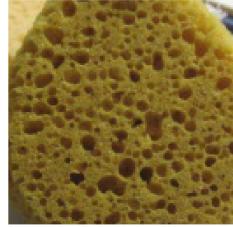


Wrongly Classified Images

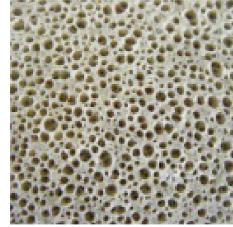
Orig lbl : cracked(0)
Pred lbl : grooved(1)
2ba1f8e2-41df-4514-80ad-
ed99349eb16c.jpg



Orig lbl : porous(2)
Pred lbl : swirly(3)
232906df-4132-44a2-bbf4-37d743
730383.jpg



Orig lbl : porous(2)
Pred lbl : cracked(0)
d2071565-b24c-4a93-a0ce-918b45
50ae46.jpg



Orig lbl : grooved(1)
Pred lbl : swirly(3)
232906df-4132-44a2-bbf4-37d743
730383.jpg



Orig lbl : porous(2)
Pred lbl : grooved(1)
2ba1f8e2-41df-4514-80ad-
ed99349eb16c.jpg



