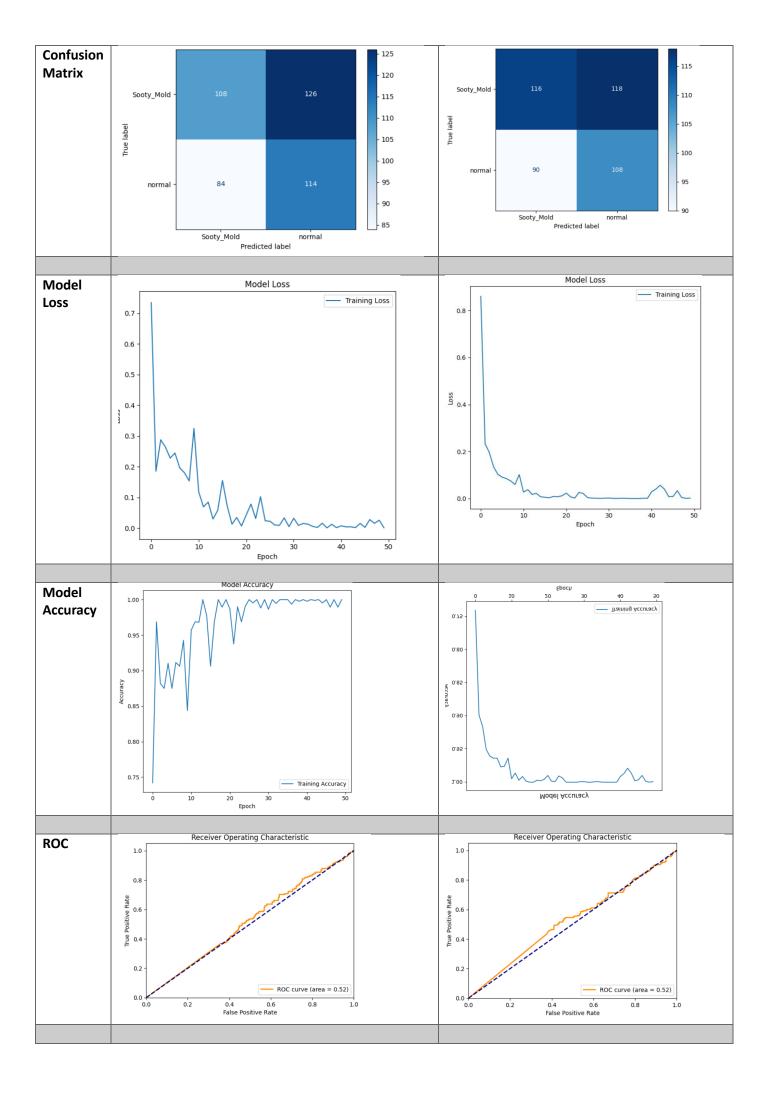


	BEFORE K FOLD	AFTER K FOLD
Accuracy	tpoch 43/50 53/53 Epoch 44/50 53/53 0s 250us/step - accuracy: 0.9998 - loss: 0.0025 Epoch 45/50 53/53 0s 250us/step - accuracy: 1.0000 - loss: 0.0014 Epoch 45/50 53/53 0s 192us/step - accuracy: 1.0000 - loss: 0.0038 Epoch 47/50 53/53 Epoch 47/50 53/53 26s 435ms/step - accuracy: 0.9871 - loss: 0.0343 Epoch 48/50 53/53 0s 250us/step - accuracy: 1.0000 - loss: 0.0154 Epoch 49/50 53/53 0s 250us/step - accuracy: 0.9868 - loss: 0.0330 Epoch 58/50 53/53 0s 183us/step - accuracy: 1.0000 - loss: 8.2040e-04 14/14 3s 210ms/step - accuracy: 0.9247 - loss: 0.3282 Test accuracy: 0.9027777910232544	Score per fold > Fold 1 - Loss: 0.3608737587928772 - Accuracy: 91.43518805503845% > Fold 2 - Loss: 0.337971568107605 - Accuracy: 91.89814925193787% > Fold 3 - Loss: 0.26351895928382874 - Accuracy: 92.8240716457367% > Fold 4 - Loss: 0.4234241247177124 - Accuracy: 80.3240716457367% > Fold 5 - Loss: 0.29420265555381775 - Accuracy: 93.5185194015503% Average scores for all folds:



<u>Layer</u>

Model: "sequential_1"

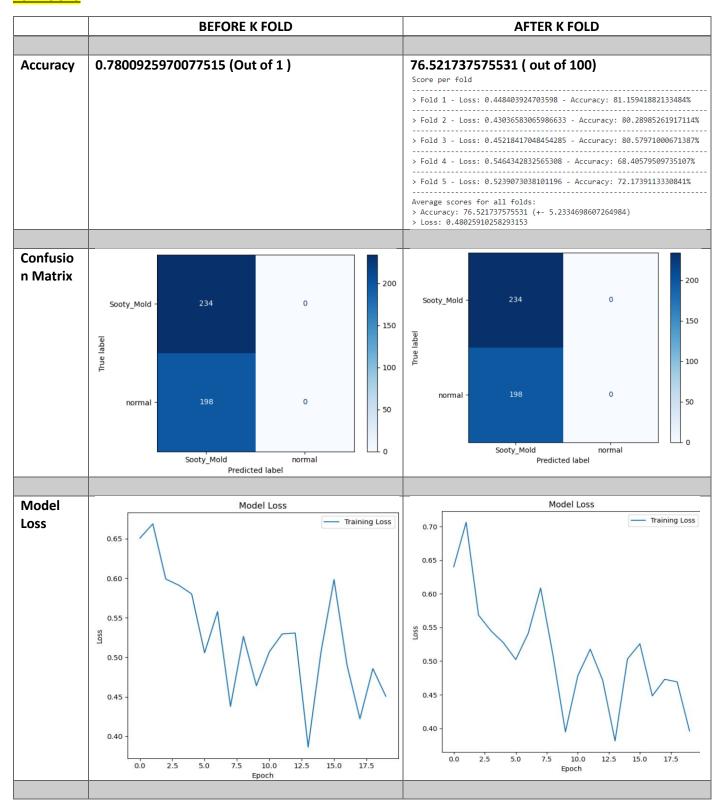
Layer (type)	Output Shape	Param #
conv2d_2 (Conv2D)	(None, 148, 148, 32)	896
max_pooling2d_2 (MaxPooling2D)	(None, 74, 74, 32)	0
conv2d_3 (Conv2D)	(None, 72, 72, 64)	18,496
max_pooling2d_3 (MaxPooling2D)	(None, 36, 36, 64)	0
flatten_1 (Flatten)	(None, 82944)	0
dense_2 (Dense)	(None, 128)	10,616,960
dense_3 (Dense)	(None, 2)	258

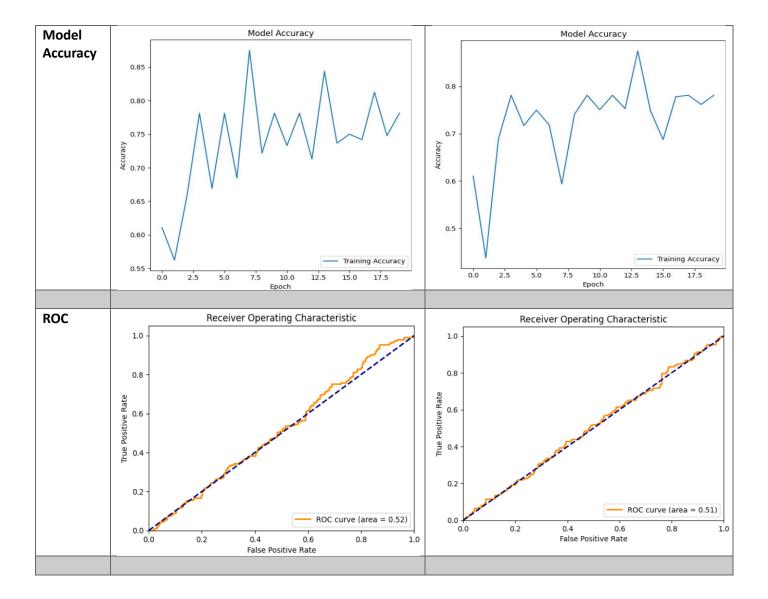
Total params: 31,909,832 (121.73 MB)
Trainable params: 10,636,610 (40.58 MB)

Non-trainable params: 0 (0.00 B)

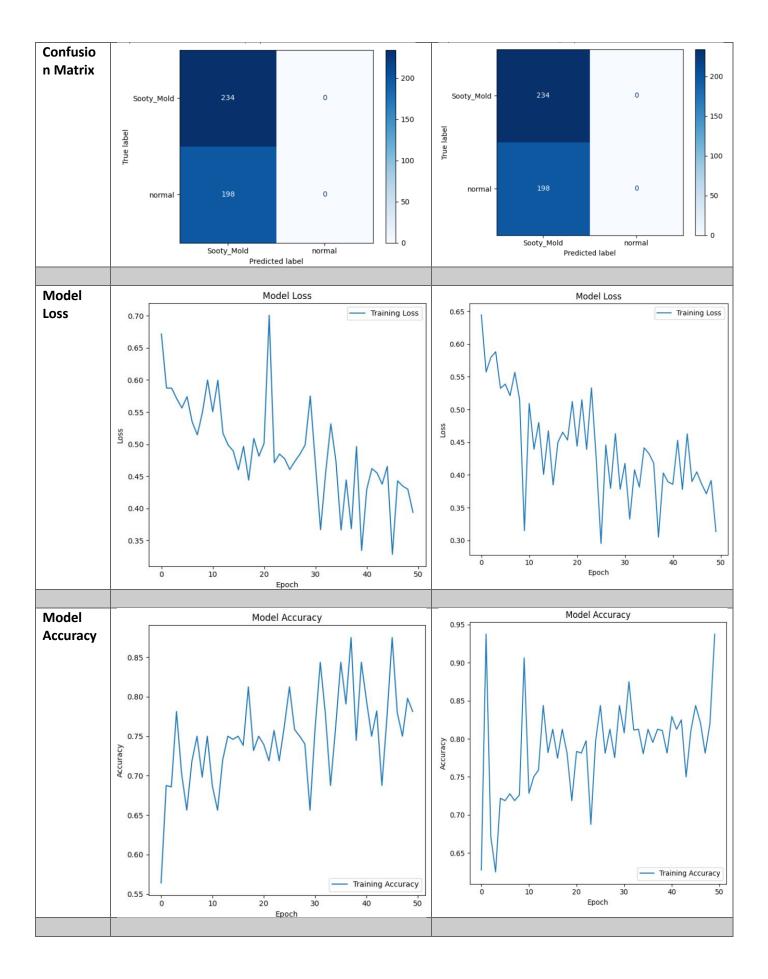
Optimizer params: 21,273,222 (81.15 MB)

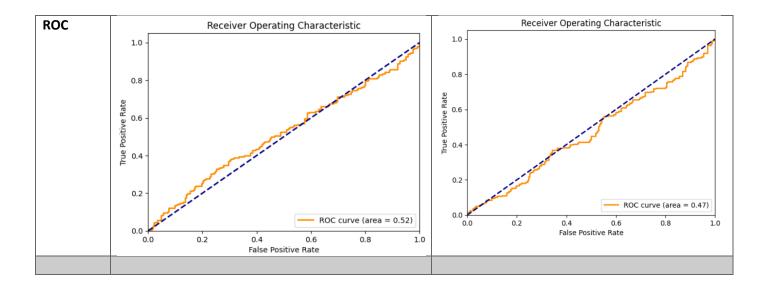
RESNET50





	BEFORE K FOLD	AFTER K FOLD
Accuracy	0.7962962985038757	78.20289850234985
		Score per fold
		> Fold 1 - Loss: 0.4044031500816345 - Accuracy: 82.89855122566223%
		> Fold 2 - Loss: 0.4571676552295685 - Accuracy: 75.36231875419617%
		> Fold 3 - Loss: 0.4326639771461487 - Accuracy: 79.1304349899292%
		> Fold 4 - Loss: 0.4194416105747223 - Accuracy: 78.2608687877655%
		> Fold 5 - Loss: 0.47968029975891113 - Accuracy: 75.36231875419617%
		Average scores for all folds: > Accuracy: 78.20289850234985 (+- 2.794660108098116) > Loss: 0.438671338558197





LAYERS

Model: "sequential"

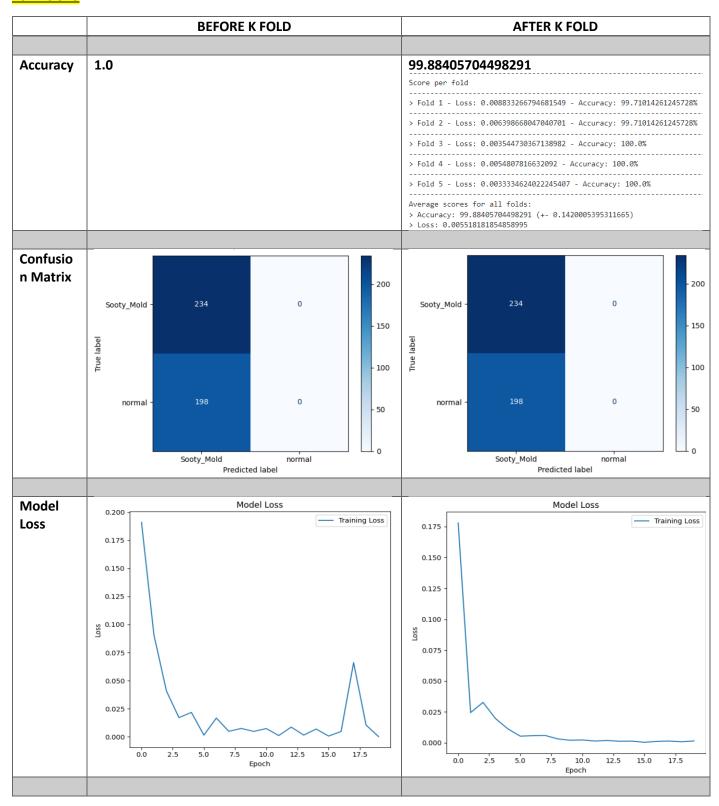
Layer (type)	Output Shape	Param #
resnet50 (Functional)	(None, 7, 7, 2048)	23,587,712
global_average_pooling2d (GlobalAveragePooling2D)	(None, 2048)	0
dense (Dense)	(None, 128)	262,272
dense_1 (Dense)	(None, 1)	129

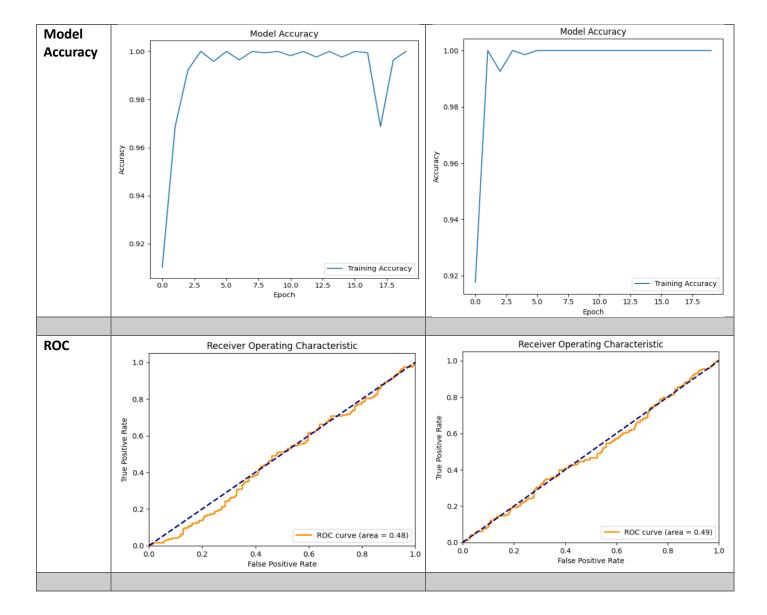
Total params: 24,374,917 (92.98 MB)
Trainable params: 262,401 (1.00 MB)

Non-trainable params: 23,587,712 (89.98 MB)

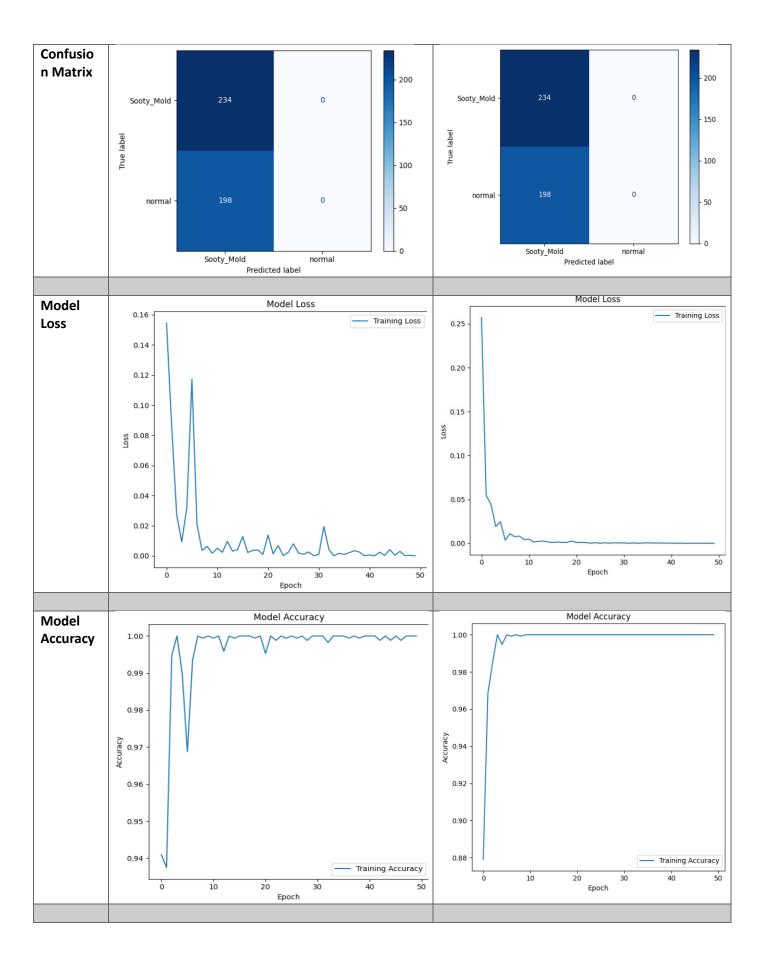
Optimizer params: 524,804 (2.00 MB)

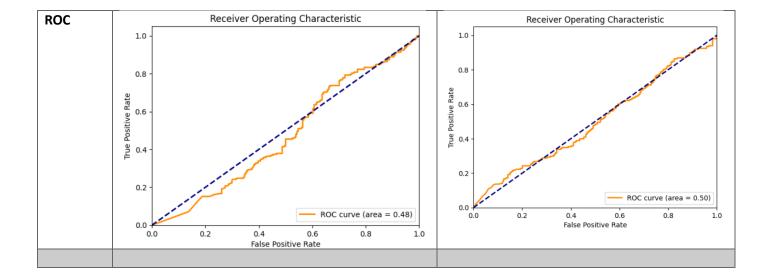
INCEPTIONV3





	BEFORE K FOLD	AFTER K FOLD
Accuracy	1.0	100.0
		Score per fold
		> Fold 1 - Loss: 0.00372141576372087 - Accuracy: 100.0%
		> Fold 2 - Loss: 0.0027570200618356466 - Accuracy: 100.0%
		> Fold 3 - Loss: 0.0009862961014732718 - Accuracy: 100.0%
		> Fold 4 - Loss: 0.001828653970733285 - Accuracy: 100.0%
		> Fold 5 - Loss: 0.002538195811212063 - Accuracy: 100.0%
		Average scores for all folds: > Accuracy: 100.0 (+- 0.0) > Loss: 0.0023663163417950274





Layers

Model: "sequential"

Layer (type)	Output Shape	Param #
inception_v3 (Functional)	(None, 8, 8, 2048)	21,802,784
global_average_pooling2d (GlobalAveragePooling2D)	(None, 2048)	0
dense (Dense)	(None, 128)	262,272
dense_1 (Dense)	(None, 1)	129

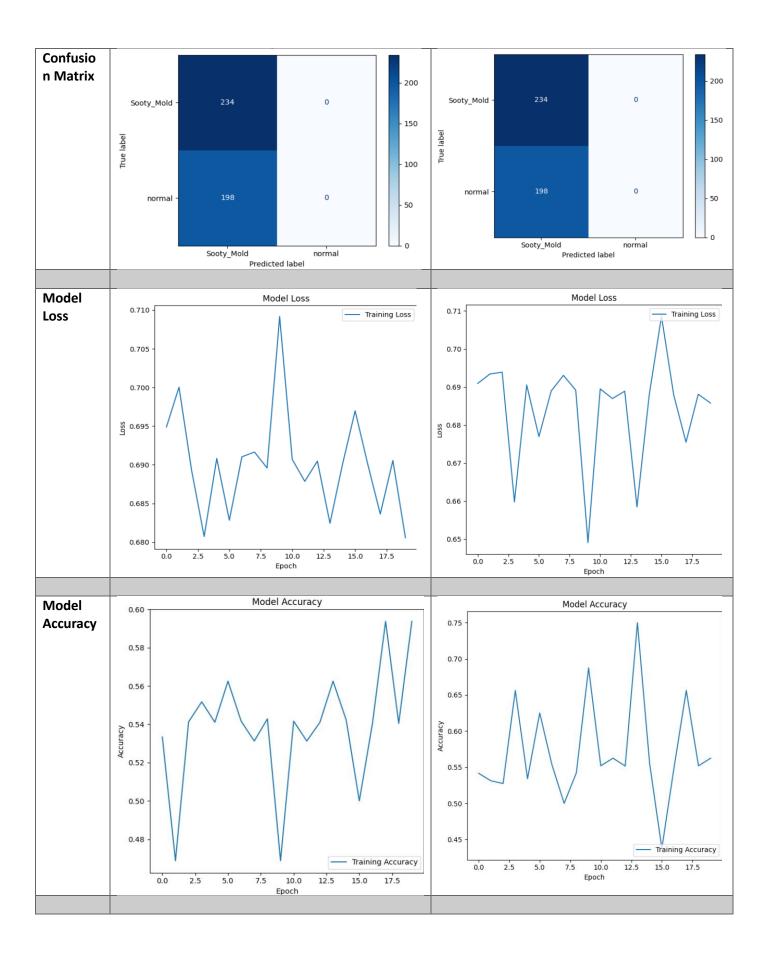
Total params: 22,589,989 (86.17 MB)
Trainable params: 262,401 (1.00 MB)

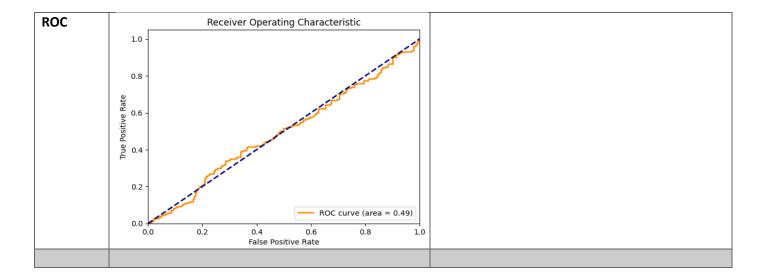
Non-trainable params: 21,802,784 (83.17 MB)

Optimizer params: 524,804 (2.00 MB)

EfficientNetB0

	BEFORE K FOLD	AFTER K FOLD
Accuracy	0.5416666865348816	54.14492607116699
		Score per fold
		> Fold 1 - Loss: 0.6872899532318115 - Accuracy: 55.942028760910034%
		> Fold 2 - Loss: 0.6937606930732727 - Accuracy: 52.753621339797974%
		> Fold 3 - Loss: 0.6870582699775696 - Accuracy: 57.10144639015198%
		> Fold 4 - Loss: 0.6880152821540833 - Accuracy: 55.07246255874634%
		> Fold 5 - Loss: 0.698686420917511 - Accuracy: 49.85507130622864%
		Average scores for all folds: > Accuracy: 54.14492607116699 (+- 2.5756357339359113) > Loss: 0.6909621238708497





	BEFORE K FOLD	AFTER K FOLD
Accuracy		
Confusion		
Matrix		
Model		
Loss		
Model		
Accuracy		
ROC		

LAYERS

Model: "sequential"

Layer (type)	Output Shape	Param #
efficientnetb0 (Functional)	(None, 7, 7, 1280)	4,049,571
global_average_pooling2d (GlobalAveragePooling2D)	(None, 1280)	0
dense (Dense)	(None, 128)	163,968
dense_1 (Dense)	(None, 1)	129

Total params: 4,541,864 (17.33 MB)

Trainable params: 164,097 (641.00 KB)

Non-trainable params: 4,049,571 (15.45 MB)

Optimizer params: 328,196 (1.25 MB)