Project Development Phase Model Performance Test

Date	12 November 2022
Team ID	PNT2022TMID51961
Project Name	A GESTURE BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	S	creenshot	
1.	Model	-	Model: "sequential"		
	Summary		Layer (type)	Output Shape	Param #
			batch_normalization (BatchN ormalization)		
			conv2d (Conv2D)	(None, 126, 126, 32)	320
			<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 63, 63, 32)	0
			conv2d_1 (Conv2D)	(None, 63, 63, 6)	3078
			max_pooling2d_1 (MaxPooling 2D)	(None, 31, 31, 6)	0
			conv2d_2 (Conv2D)	(None, 31, 31, 128)	7040
			max_pooling2d_2 (MaxPooling 2D)	(None, 15, 15, 128)	0
			conv2d_3 (Conv2D)	(None, 15, 15, 128)	65664
			max_pooling2d_3 (MaxPooling 2D)	(None, 7, 7, 128)	0
			flatten (Flatten)	(None, 6272)	0
			dense (Dense)	(None, 128)	802944
			dense_1 (Dense)	(None, 64)	8256
			dense_2 (Dense)	(None, 32)	2080
			dense_3 (Dense)	(None, 6)	198

2.	Accuracy	Training	Epoch 1/20
	,	Accuracy –	562/562 [========] - 308s 546ms/step - loss: 0.2178 - accuracy: 0.9182 - val_loss: 0.0014 - val_accuracy: 1.0000
		99.92%	Epoch 2/20
		JJ.JZ/0	562/562 [========] - 306s 545ms/step - loss: 0.0386 - accuracy: 0.9880 - val_loss: 0.0068 - val_accuracy:
			0.9978
		Validation	Epoch 3/20
		Accuracy –	562/562 [========] - 299s 532ms/step - loss: 0.0192 - accuracy: 0.9948 - val_loss: 7.7184e-04 - val_accuracy: 1.0000
		99.86%	Epoch 4/20
			562/562 [======] - 306s 545ms/step - loss: 0.0137 - accuracy: 0.9960 - val_loss: 0.0032 - val_accuracy:
			0.9983
			Epoch 5/20 562/562 [====================================
			Epoch 6/20
			562/562 [=======] - 312s 556ms/step - loss: 0.0150 - accuracy: 0.9949 - val_loss: 1.4421e-05 - val_accur
			acy: 1.0000 Epoch 7/20
			562/562 [=======] - 304s 541ms/step - loss: 0.0073 - accuracy: 0.9978 - val_loss: 0.0120 - val_accuracy:
			0.9967
			Epoch 8/20 562/562 [====================================
			0.9994
			Epoch 9/20 562/562 [====================================
			acy: 1.0000
			Epoch 10/20
			562/562 [=========] - 311s 553ms/step - loss: 0.0124 - accuracy: 0.9962 - val_loss: 4.3617e-04 - val_accuracy: 1.0000
			Epoch 11/20
			562/562 [=======] - 311s 552ms/step - loss: 0.0071 - accuracy: 0.9978 - val_loss: 2.4401e-04 - val_accuracy: 1.0000
			Epoch 12/20
			562/562 [=======] - 310s 552ms/step - loss: 0.0035 - accuracy: 0.9992 - val_loss: 0.0021 - val_accuracy: 0.9989
			Epoch 13/20
			562/562 [=======] - 303s 539ms/step - loss: 0.0090 - accuracy: 0.9975 - val_loss: 0.0017 - val_accuracy: 1.0000
			Epoch 14/20
			562/562 [=======] - 299s 533ms/step - loss: 0.0082 - accuracy: 0.9976 - val_loss: 1.9254e-05 - val_accuracy: 1.0000
			Epoch 15/20
			562/562 [=======] - 308s 549ms/step - loss: 0.0072 - accuracy: 0.9982 - val_loss: 1.5410e-04 - val_accuracy: 1.0000
			acy: 1.0000 Epoch 16/20
			562/562 [=======] - 307s 545ms/step - loss: 0.0078 - accuracy: 0.9974 - val_loss: 1.8354e-04 - val_accur
			acy: 1.0000 Epoch 17/20
			562/562 [=======] - 306s 545ms/step - loss: 0.0020 - accuracy: 0.9996 - val_loss: 1.1681e-05 - val_accur
			acy: 1.0000 Epoch 18/20
			562/562 [=======] - 307s 546ms/step - loss: 0.0074 - accuracy: 0.9981 - val_loss: 1.8610e-04 - val_accur
			acy: 1.0000 Epoch 19/20
			562/562 [======] - 300s 534ms/step - loss: 0.0051 - accuracy: 0.9986 - val_loss: 1.1064e-04 - val_accur
			acy: 1.0000 Epoch 20/20
			562/562 [=======] - 304s 540ms/step - loss: 0.0026 - accuracy: 0.9992 - val_loss: 0.0037 - val_accuracy:
			0.9986