Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID26077
Project Name	Project – Real Time Communication Powered by AI for Specially Abled
Maximum Marks	10 Marks

Model Performance Testing:

S.NO	Parameter	Values	Screenshot			
1.	Model	Total params:1,103,721	Model: "sequential"			
		Trainableparams:1,103,721	Layer (type)	Output Shape	Param #	
			conv2d (Conv2D)	(None, 62, 62, 32)	320	
		Non-trainable params: 0	<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 31, 31, 32)	0	
			conv2d_1 (Conv2D)	(None, 29, 29, 512)	147968	
			max_pooling2d_1 (MaxPooling 2D)	(None, 14, 14, 512)	0	
			conv2d_2 (Conv2D)	(None, 14, 14, 32)	147488	
			<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 7, 7, 32)	0	
			flatten (Flatten)	(None, 1568)	0	
			dense (Dense)	(None, 512)	803328	
			dense_1 (Dense)	(None, 9)	4617	
			Total params: 1,103,721 Trainable params: 1,103 Non-trainable params: 0	,721		

2.	Accuracy	Training Accuracy - 0.9987	
		Validation Accuracy -0.9782	# Fitting the Model Generator model.fit_generator(x_train,steps_per_epoch=len(x_train),epochs=10,validation_data=x_test,validation_steps=len(x_test))
			/tmp/wsuser/ipykernel_164/1042518445.py:2: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please use `Model.fit `, which supports generators. model.fit_generator(x_train,steps_per_epoch=len(x_train),epochs=10,validation_data=x_test,validation_steps=len(x_test)) Epoch 1/10
			18/18 [====================================
			Epoch 3/10 18/18 [====================================
			Epoch 5/10 18/18 [==========] - 73s 4s/step - loss: 0.0357 - accuracy: 0.9902 - val_loss: 0.2313 - val_accuracy: 0.9707 Epoch 6/10 18/18 [====================================
			Epoch 7/10 18/18 [========] - 71s 4s/step - loss: 0.0170 - accuracy: 0.9965 - val_loss: 0.2795 - val_accuracy: 0.9756 Epoch 8/10
			18/18 [=========] - 72s 4s/step - loss: 0.0119 - accuracy: 0.9977 - val_loss: 0.2573 - val_accuracy: 0.9769 Epoch 9/10 18/18 [=======] - 72s 4s/step - loss: 0.0095 - accuracy: 0.9981 - val_loss: 0.2782 - val_accuracy: 0.9782 Epoch 10/10
			18/18 [=========] - 72s 4s/step - loss: 0.0075 <mark>- accuracy: 0.9987 -</mark> val_loss: 0.3134 - val_accuracy: 0.9764
3.	Confidence	Class Detected – N/A	
3.	Score (Only Yolo Projects)		N/A
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