Project Development Phase

Model Performance Test

Date	6 November 2023
Team ID	Team-592792
Project Name	Deep Learning Model for Eye Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1	Model Summary	Total params: 24649092 Trainable params: 1056260 Non-trainable params: 23592832	Model: "sequential_1" Layer (type)

2	Accuracy	Training Accuracy - 99.14 % Validation Accuracy - 93.04%	Epoch 15: val_accuracy did not improve from 0.92880 27:52 25:54 25:54 25:55
3.	Confidence Score (Only Yolo Projects)	Class Detected - NA Confidence Score – NA	Not a Yolo Project

Screenshots:

Model Summary:

Layer (type) 	Output Shape 	Param # 			
esnet50 (Functional)	(None, 2048)	23587712			
latten_3 (Flatten)	(None, 2048)	0			
batch_normalization_98 (Ba tchNormalization)	(None, 2048)	8192			
dense_5 (Dense)	(None, 512)	1049088			
batch_normalization_99 (BatchNormalization)	(None, 512)	2048			
dense_6 (Dense)	(None, 4)	2052			
Formular (1988)					

Accuracy:

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Epoch 15: val_accuracy did not improve from 0.92880
52/52 [===========] - 26s 462ms/step - loss: 0.0204 - accuracy: 0.9955 - val_loss: 0.2757 - val_accuracy: 0.9146
Epoch 16/50
52/52 [=============== ] - ETA: 0s - loss: 0.0144 - accuracy: 0.9955
Epoch 16: val_accuracy did not improve from 0.92880
Epoch 17/50
52/52 [=================== ] - ETA: 0s - loss: 0.0301 - accuracy: 0.9908
Epoch 17: val_accuracy did not improve from 0.92880
52/52 [============== ] - 28s 467ms/step - loss: 0.0301 - accuracy: 0.9908 - val loss: 0.3538 - val accuracy: 0.9177
Epoch 18/50
Epoch 18: val accuracy did not improve from 0.92880
Epoch 19/50
52/52 [========== ] - ETA: 0s - loss: 0.0313 - accuracy: 0.9914
Epoch 19: val_accuracy improved from 0.92880 to 0.93038, saving model to resnet50best model.h5
52/52 [============= ] - 27s 469ms/step - loss: 0.0313 - accuracy: 0.9914 - val_loss: 0.2706 - val_accuracy: 0.9304
Epoch 20/50
52/52 [-----
                  -----] - ETA: 0s - loss: 0.0145 - accuracy: 0.9958
Epoch 20: val_accuracy did not improve from 0.93038
52/52 [============ ] - 27s 473ms/step - loss: 0.0145 - accuracy: 0.9958 - val loss: 0.2843 - val accuracy: 0.9193
Epoch 21/50
52/52 [=============== ] - ETA: 0s - loss: 0.0100 - accuracy: 0.9975
Epoch 21: val_accuracy did not improve from 0.93038
Epoch 22/50
52/52 [============================ ] - ETA: 0s - loss: 0.0102 - accuracy: 0.9975
Epoch 22: val_accuracy did not improve from 0.93038
52/52 [============== ] - 28s 469ms/step - loss: 0.0102 - accuracy: 0.9975 - val loss: 0.2666 - val accuracy: 0.9177
Epoch 23/50
52/52 [============================ ] - ETA: 0s - loss: 0.0087 - accuracy: 0.9983
Epoch 23: val_accuracy did not improve from 0.93038
52/52 [============== ] - 26s 463ms/step - loss: 0.0087 - accuracy: 0.9983 - val loss: 0.2657 - val accuracy: 0.9193
Epoch 24/50
52/52 [==============] - ETA: 0s - loss: 0.0054 - accuracy: 0.9989
Epoch 24: val accuracy did not improve from 0.93038
52/52 [========================= ] - 27s 464ms/step - loss: 0.0054 - accuracy: 0.9989 - val_loss: 0.2862 - val_accuracy: 0.9193
Epoch 25/50
Epoch 25: val_accuracy did not improve from 0.93038
Epoch 26/50
52/52 [============== ] - ETA: 0s - loss: 0.0080 - accuracy: 0.9980
Epoch 26: val_accuracy did not improve from 0.93038
Epoch 27/50
52/52 [============= ] - ETA: 0s - loss: 0.0129 - accuracy: 0.9969
Epoch 27: val accuracy did not improve from 0.93038
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