

Project Development Phase Model Performance Test

Date	8 November 2023
Team ID	Team-592170
Project Name	Alzheimer Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No	Parameter	Values	Screenshot
1.	Model Summary	Total params: 231,626,628 Trainable params: 207,832,068 Non-trainable params: 23,794,560	<pre> Model: "sequential" Layer (type) Output Shape Param # ===== resnet50 (Functional) (None, 7, 7, 2048) 23587712 dropout (Dropout) (None, 7, 7, 2048) 0 flatten (Flatten) (None, 100352) 0 batch_normalization (BatchNo (None, 100352) 401408 dense (Dense) (None, 2048) 205522944 batch_normalization_1 (Batch (None, 2048) 8192 activation (Activation) (None, 2048) 0 dropout_1 (Dropout) (None, 2048) 0 dense_1 (Dense) (None, 1024) 2098176 batch_normalization_2 (Batch (None, 1024) 4096 activation_1 (Activation) (None, 1024) 0 ... Total params: 231,626,628 Trainable params: 207,832,068 Non-trainable params: 23,794,560 </pre>

2.	Accuracy	Training Accuracy – 77.73 Validation Accuracy – 80.90	<div>33/33 [=====] - 516s 16s/step - loss: 1.2512 - auc: 0.7773 - val_loss: 1.0808 - val_auc: 0.8096</div> <div>Epoch 00001: val_auc improved from 0.77528 to 0.80895, saving model to _best_weights.hdf5</div> <div>10/10 [=====] - 91s 9s/step - loss: 1.1231 - auc: 0.7804</div> <div>[1.1231095790863037, 0.780361533164978]</div>
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3.	Confidence Score (Only Yolo Projects)	Class Detected - NA Confidence Score - NA	Not Applicable
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Screenshot:

Model Summary:

Model: "sequential"

Layer (type)	Output Shape	Param #
=====		
resnet50 (Functional)	(None, 7, 7, 2048)	23587712
dropout (Dropout)	(None, 7, 7, 2048)	0
flatten (Flatten)	(None, 100352)	0
batch_normalization (BatchNo	(None, 100352)	401408
dense (Dense)	(None, 2048)	205522944
batch_normalization_1 (Batch	(None, 2048)	8192
activation (Activation)	(None, 2048)	0
dropout_1 (Dropout)	(None, 2048)	0
dense_1 (Dense)	(None, 1024)	2098176
batch_normalization_2 (Batch	(None, 1024)	4096
activation_1 (Activation)	(None, 1024)	0
...		
Total params: 231,626,628		
Trainable params: 207,832,068		
Non-trainable params: 23,794,560		

Accuracy:

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33/33 [=====] - 516s 16s/step - loss: 1.2512 - auc: 0.7773 - val_loss: 1.0808 - val_auc: 0.8090  
Epoch 00001: val_auc improved from 0.77528 to 0.80895, saving model to .\best\_weights.hdf5
```

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10/10 [=====] - 91s 9s/step - loss: 1.1231 - auc: 0.7804  
[1.1231095790863037, 0.780361533164978]
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