Project Development Phase Model Performance Test

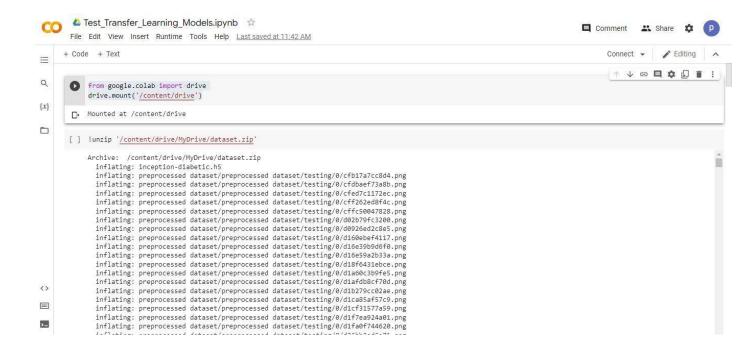
Date	17 November 2022	
Team ID	PNT2022TMID26245	
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy	
Maximum Marks	10 Marks	

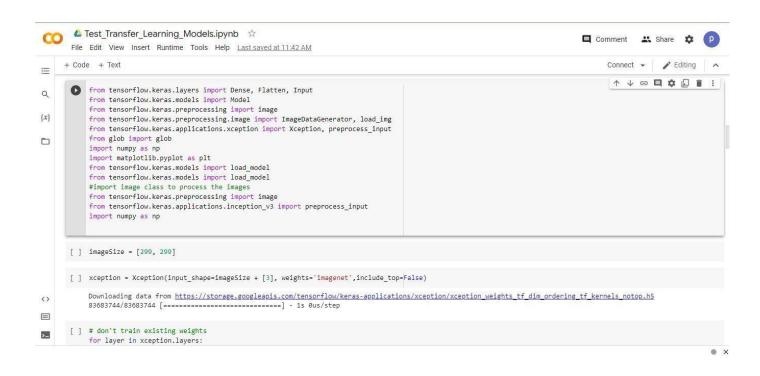
Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Total params: 21,885,485 Trainable params: 1,024,005 Non-trainable params: 20,861,480	Attached below
2.	Accuracy	Training Accuracy - 72%	Attached below
		Validation Accuracy - 59%	
3.	Confidence Score (Only Yolo Projects)	Class Detected - NILL	NILL
	• •	Confidence Score - NILL	

SCREENSHOTS:







```
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+ Code + Text
     # tell the model what cost and optimization method to use
     model.compile(
       loss='categorical_crossentropy',
       optimizer='adam',
       metrics=['accuracy']
     )
 [ ] train_datagen = ImageDataGenerator(rescale = 1./255,
                                       shear_range = 0.2,
                                       zoom range = 0.2,
                                       horizontal_flip = True)
     test_datagen = ImageDataGenerator(rescale = 1./255)
 [ ] training_set = train_datagen.flow_from_directory('/content/preprocessed dataset/preprocessed dataset/training',
                                                    target_size = (299, 299),
                                                    batch_size = 32,
                                                    class_mode = 'categorical')
     test_set = test_datagen.flow_from_directory('/content/preprocessed dataset/preprocessed dataset/testing',
                                                target_size = (299, 299),
                                               batch_size = 32,
                                               class_mode = 'categorical')
```

Found 3662 images belonging to 5 classes.





← Test_Transfer_Learning_Models.ipynb ☆ File Edit View Insert Runtime Tools Help Last saved at 11:42 AM	■ Comment
+ Code + Text	Connec
[] IMB_uata.shape (1, 299, 299, 3)	
[] model.predict(img_data)	
1/1 [===================================	
[] output=np.argmax(model.predict(img_data), axis=1)	
1/1 [===================================	
[] output==0,output==1,output==2,output==4	
<pre>(array([True]), array([False]), array([False]), array([False]), array([False]))</pre>	
<pre>[] index=['No Diabetic Retinopathy', 'Mild DR', 'Moderate DR', 'Severe DR', 'Proliferative result = str(index[output[0]]) result</pre>	DR']
'No Diabetic Retinopathy'	