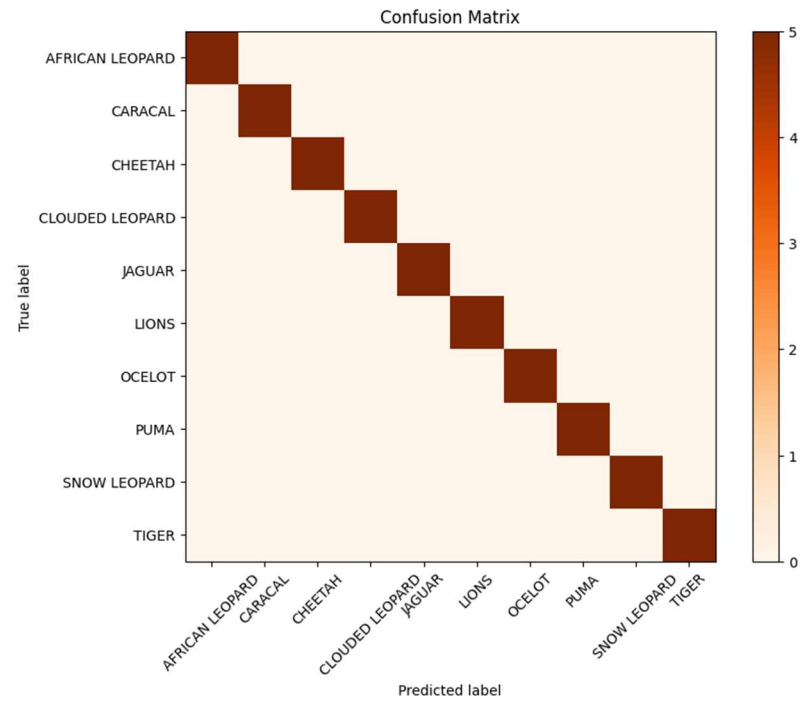


Project Development Phase Model Performance Test

Date	October 2023
Team ID	Team-592617
Project Name	Jungle Detectives: AI-Powered Image Classification of Wild Big Cats
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot																					
1.	Model Summary	-	<div>Model: "sequential_5"</div> <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>resnet50v2 (Functional)</td><td>(None, 7, 7, 2048)</td><td>23564800</td></tr><tr><td>global_average_pooling2d_5 (GlobalAveragePooling2D)</td><td>(None, 2048)</td><td>0</td></tr><tr><td>flatten (Flatten)</td><td>(None, 2048)</td><td>0</td></tr><tr><td>dense_5 (Dense)</td><td>(None, 256)</td><td>524544</td></tr><tr><td>dropout_5 (Dropout)</td><td>(None, 256)</td><td>0</td></tr><tr><td>dense_6 (Dense)</td><td>(None, 10)</td><td>2570</td></tr></tbody></table> <div>Total params: 24091914 (91.90 MB) Trainable params: 527114 (2.01 MB) Non-trainable params: 23564800 (89.89 MB)</div>	Layer (type)	Output Shape	Param #	resnet50v2 (Functional)	(None, 7, 7, 2048)	23564800	global_average_pooling2d_5 (GlobalAveragePooling2D)	(None, 2048)	0	flatten (Flatten)	(None, 2048)	0	dense_5 (Dense)	(None, 256)	524544	dropout_5 (Dropout)	(None, 256)	0	dense_6 (Dense)	(None, 10)	2570
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dropout_5 (Dropout)	(None, 256)	0																						
dense_6 (Dense)	(None, 10)	2570																						

2.	Accuracy	Training Accuracy – 91% Validation Accuracy – 95%	Epoch 17/20 146/146 [=====] - ETA: 0s - loss: 0.2753 - accuracy: 0.9100WARNING:tensorflow:Learning rate reduction is conditioned on m 146/146 [=====] - 38s 261ms/step - loss: 0.2753 - accuracy: 0.9100 - val_loss: 0.1466 - val_accuracy: 0.9583 - lr: 0.0018
3.	Confusion Matrix	-	 <p>Confusion Matrix</p> <p>True label</p> <p>Predicted label</p> <p>AFRICAN LEOPARD CARACAL CHEETAH CLOUDED LEOPARD JAGUAR LIONS OCELOT PUMA SNOW LEOPARD TIGER</p>
4.	Test Accuracy Scores	-	Test loss: 0.02155800350010395 Test accuracy: 1.0

5.	Classification Report					
				precision	recall	f1-score support
			AFRICAN LEOPARD	1.00	1.00	1.00 5
			CARACAL	1.00	1.00	1.00 5
			CHEETAH	1.00	1.00	1.00 5
			CLOUDED LEOPARD	1.00	1.00	1.00 5
			JAGUAR	1.00	1.00	1.00 5
			LIONS	1.00	1.00	1.00 5
			OCELOT	1.00	1.00	1.00 5
			PUMA	1.00	1.00	1.00 5
			SNOW LEOPARD	1.00	1.00	1.00 5
			TIGER	1.00	1.00	1.00 5
			accuracy			1.00 50
			macro avg	1.00	1.00	1.00 50
			weighted avg	1.00	1.00	1.00 50