Project Development Phase Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID59856
Project Name	HematoVision: Advanced Blood Cell
	Classification Using Transfer Learning
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot	
1	Motrics	Classification Model:	Confusion Matrix	
1.	Metrics			
		Confusion Matrix - , Accuray	<pre>import matplotlib.pyplot as plt import seabors as ans from sklearn.metrics import confusion_matrix</pre>	
		Score- & Classification	class_labels = ['EOSINOPHIL', 'LYMPHOCYTE', 'MONOCYTE', 'NEUTROPHIL']	
		Report -	<pre>cm = confusion_matrix(y_test, pred2)</pre>	
			<pre>plt.figure(figsize=(10, 7)) sns.heatmap(cm, annot=True, fmt='g', vmin=0, cmap='8lues')</pre>	
			plt.wticks(ticks=[0.5, 1.5, 2.5, 3.5], labels=class_labels) plt.yticks(ticks=[0.5, 1.5, 2.5, 3.5], labels=class_labels) plt.vlabel("Predicts, 1.5, 2.5, 3.5], labels=class_labels) plt.vlabel("Arbual")	
			plt.title("Confusion Matrix")	
			plt.show()	
			Confusion Matrix	
			-700	
			- 700 - 590 52 5 78 - 600	
			-500	
			OH - 4 757 0 1	
			- 400	
			- 300 - 1 17 729 12 - 300	
			-200 H 20 - 124 16 10 592 -100	
			EOSINOPHIL LYMPHOCYTE MONOCYTE NEUTROPHIL Predicted	
			Classification report from sklearn.metrics import confusion_matrix, accuracy_score from sklearn.metrics import classification_report y_test = test_images.labels # set y_test to the expected output print(classification_report(y_test, pred2))	
		<pre>print("Accuracy of the Model:","{:.1f}%".format(accuracy_score(y_test</pre>	t, pre	

			eosinophil 0.82 0.81 0.82 725 lymphocyte 0.90 0.99 0.94 762	
			monocyte 0.98 0.96 0.97 759 neutrophil 0.87 0.80 0.83 742	
			3800F18803010F4-0000000F 100800F 3-00000F7 4-0000F98-4 4-0000F88-4	
			macro avg 0.89 0.89 0.89 2988	
			weighted avg 0.89 0.89 2988	
			Accuracy of the Model: 89.3%	