Project Development Phase Model Performance Test

Date	23 June 2025	
Team ID	LTVIP2025TMID38840	
Project Name	ame CleanTech: Transforming Waste Management	
	with Transfer Learning	
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.	Metrics	Classification Model: • Final Training Accuracy: 82.0% • Final Validation Accuracy: 78.2% • Loss decreased consistently per epoch	<pre>1 # Get the last recorded training and validation accuracy 2 final_train_accuracy = history.history['accuracy'][-1] 3 final_val_accuracy = history.history['val_accuracy'][-1] 4 5 # Print the results 6 print(f"Final Training Accuracy: {final_train_accuracy:.4f}") 7 print(f"Final Validation Accuracy: {final_val_accuracy:.4f}") 8 Final Training Accuracy: 0.8200 Final Validation Accuracy: 0.7821</pre>
2.	Tune the Model	VGG16 with Transfer Learning • Tuned: learning rate, batch size, epochs • Validation done using train/test split (no cross- validation)	Special System