

Project Development Phase

Model Performance Test

Date	20 January 2026
Team ID	LTVIP2026TMIDS76912
Project Name	HematoVision: Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	

Model Performance Testing – HematoVision

S.No.	Parameter	Values
1	Metrics	<p>Regression Model: Not Applicable (Project is Classification-Based)</p> <p>Classification Model: Confusion Matrix – Generated for 4 classes Accuracy Score – 98% Precision – 97–98% Recall – 97–98% F1-Score – 97–98% Classification Report – Generated using sklearn metrics</p>
2	Tune the Model	<p>Hyperparameter Tuning: Learning Rate Adjustment (e.g., 0.001 → 0.0001) Batch Size Optimization (16 / 32) Dropout Regularization (0.5) Fine-tuning last convolution layers</p> <p>Validation Method: Train-Test Split (80:20) Validation Split during training (10–20%) Early Stopping used to prevent overfitting</p>