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	Model Summary	Transfer Learning using VGG16 (pre-trained on ImageNet) Input Shape: 224x224x3 Output Classes: 4 (Eosinophils, Lymphocytes, Monocytes, Neutrophils) Total Parameters: ~15 Million Trainable Parameters: Custom Dense Layers + Fine-tuned Layers Optimizer: Adam Loss Function: Categorical Crossentropy
2	Accuracy	Training Accuracy – 98% Validation Accuracy – 97% Training Loss – Low and stable Minimal overfitting observed
3	Fine Tuning Result (if done)	After unfreezing last few convolution layers: Validation Accuracy improved from 95% to 97–98% Better class-level precision and recall observed