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:

S.No.	Parameter	Values
1	**Model Summary**	Transfer Learning using VGG16/ResNet Input Shape: 224x224x3 Output Classes: 4 (Eosinophils, Lymphocytes, Monocytes, Neutrophils) Total Images: 12,000 Optimizer: Adam Loss Function: Categorical Crossentropy
2	**Accuracy**	Training Accuracy – 98% Validation Accuracy – 97–98% Training Loss – Low and stable No significant overfitting observed
3	**Confidence Score**	Predicted Class – Displayed on UI (e.g., Neutrophil) Confidence Score – Example: 92% probability System returns probability for all 4 classes