Project Development Phase

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	Screenshot / Values
1	**Data Rendered**	Total Images: 12,000 Classes: 4 (Eosinophils, Lymphocytes, Monocytes, Neutrophils) Train-Test Split: 80% – 20%
2	**Data Preprocessing**	Image Resizing: 224x224 Normalization: Pixel values scaled (0–1) Data Augmentation: Rotation, Zoom, Flip
3	**Utilization of Filters**	CNN Filters used in pre-trained model (VGG16/ResNet) for feature extraction Convolution + MaxPooling layers applied
4	**Calculation Fields Used**	Accuracy, Precision, Recall, F1-Score Confusion Matrix Loss Function: Categorical Crossentropy
5	**Model Evaluation Dashboard**	No. of Visualizations / Graphs – 6 (Accuracy vs Epoch, Loss vs Epoch, Confusion Matrix, Precision-Recall Curve, Class Distribution Chart, Sample Prediction Output)
6	**Performance Report / Story Design**	No. of Visualizations / Graphs – 5 (Training Summary, Validation Metrics, Per-Class Accuracy, Error Analysis, Final Prediction Confidence Distribution)