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	

Test Scenarios & Results – HematoVision

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Image Upload Validation	Upload valid image (.jpg/.png) and invalid file (.txt/.pdf)	Accept valid images, show error for invalid formats	System correctly validates file type	Pass
FT-02	Image Size Validation	Upload very small / very large resolution image	Image resized automatically or proper error shown	Image resized to 224x224 successfully	Pass
FT-03	Blood Cell Classification	Upload blood smear image and click "Predict"	Correct class label displayed (e.g., Neutrophil)	Correct prediction displayed	Pass
FT-04	Confidence Score Display	Upload image and check output	Prediction confidence (e.g., 92%) shown	Confidence score displayed correctly	Pass
FT-05	Model Loading Check	Start Flask server and perform prediction	Model loads without error	Model loads successfully	Pass
PT-01	Response Time Test	Upload image and measure prediction time	Prediction should be under 3 seconds	Average response time ~2 seconds	Pass
PT-02	Multiple Prediction Test	Upload multiple images sequentially	System should not crash	Stable performance observed	Pass
PT-03	Load Test	Simulate multiple users uploading images	Application remains stable without slowdown	No crash or major delay	Pass