

Project Development Phase Model Performance Test

Date	24-Jan-2026
Team ID	LTVIP2026TMIDS65604
Project Name	Hematovision: Advanced Blood Cell Classification using Transfer Learning
Maximum Marks	4 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot																		
1.	Metrics	Classification Model: <ul style="list-style-type: none">• Confusion Matrix - Available• Accuracy Score - 0.95• Classification Report - Included	<div>Model Summary:</div> <div>Model: "sequential"</div> <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>mobilenetv2_1.00_224 (Functional)</td><td>(None, 7, 7, 1280)</td><td>2257984</td></tr><tr><td>global_average_pooling2d (GlobalAveragePooling2D)</td><td>(None, 1280)</td><td>0</td></tr><tr><td>dense (Dense)</td><td>(None, 4)</td><td>5124</td></tr></tbody></table> <div>Total params: 2263108 (8.63 MB)</div> <div>Trainable params: 2228996 (8.50 MB)</div> <div>Non-trainable params: 34112 (133.25 KB)</div>	Layer (type)	Output Shape	Param #	mobilenetv2_1.00_224 (Functional)	(None, 7, 7, 1280)	2257984	global_average_pooling2d (GlobalAveragePooling2D)	(None, 1280)	0	dense (Dense)	(None, 4)	5124						
Layer (type)	Output Shape	Param #																			
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global_average_pooling2d (GlobalAveragePooling2D)	(None, 1280)	0																			
dense (Dense)	(None, 4)	5124																			
2.	Tune the Model	Hyperparameter Tuning - Basic tuning applied Validation Method - Validation Split (20%)	<div>Figure 1</div> <div>Training vs Validation Accuracy</div> <table border="1"><caption>Training vs Validation Accuracy Data</caption><thead><tr><th>Epochs</th><th>Training Accuracy</th><th>Validation Accuracy</th></tr></thead><tbody><tr><td>1.0</td><td>0.70</td><td>0.68</td></tr><tr><td>2.0</td><td>0.80</td><td>0.78</td></tr><tr><td>3.0</td><td>0.88</td><td>0.85</td></tr><tr><td>4.0</td><td>0.92</td><td>0.90</td></tr><tr><td>5.0</td><td>0.95</td><td>0.93</td></tr></tbody></table>	Epochs	Training Accuracy	Validation Accuracy	1.0	0.70	0.68	2.0	0.80	0.78	3.0	0.88	0.85	4.0	0.92	0.90	5.0	0.95	0.93
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