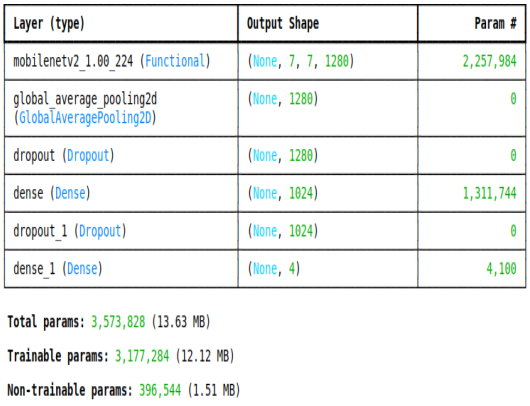
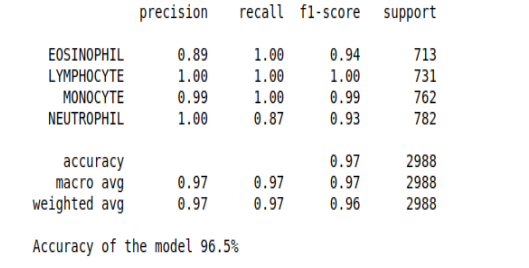
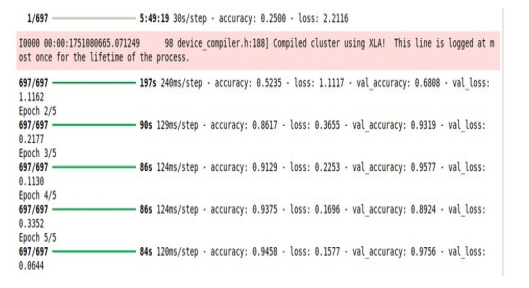
Project Development Phase
Model Performance Test

Date	26 JUNE 2025
Team ID	LTVIP2025TMID45471
Project Name	Hematovision – Advanced Blood Cell Classification using Transfer Learning
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	**Total params: 3,573,828** **Trainable params:** 3,177,284 **Non-trainable params:** 396,544	 Layer (type) | Output Shape | Param # mobilenetv2_1.00_224 (Functional) | (None, 7, 7, 1280) | 2,257,984 global_average_pooling2d (GlobalAveragePooling2D) | (None, 1280) | 0 dropout (Dropout) | (None, 1280) | 0 dense (Dense) | (None, 1024) | 1,311,744 dropout_1 (Dropout) | (None, 1024) | 0 dense_1 (Dense) | (None, 4) | 4,100 Total params: 3,573,828 (13.63 MB) Trainable params: 3,177,284 (12.12 MB) Non-trainable params: 396,544 (1.51 MB)
2.	Accuracy	Training Accuracy – 94.58 Validation Accuracy -97.5	 precision recall f1-score support EOSINOPHIL 0.89 1.00 0.94 713 LYMPHOCYTE 1.00 1.00 1.00 731 MONOCYTE 0.99 1.00 0.99 762 NEUTROPHIL 1.00 0.87 0.93 782 accuracy 0.97 2988 macro avg 0.97 0.97 0.97 2988 weighted avg 0.97 0.97 0.96 2988 Accuracy of the model 96.5%
3.	Fine Tunning Result(if Done)	Validation Accuracy -97.5	 1/697 5:49:19 30s/step - accuracy: 0.2500 - loss: 2.2116 I0000 00:00:1751080665.071249 98 device_compiler.h:188] Compiled cluster using XLA! This line is logged at most once for the lifetime of the process. 697/697 197s 240ms/step - accuracy: 0.5235 - loss: 1.1117 - val_accuracy: 0.6808 - val_loss: 1.1162 Epoch 2/5 697/697 90s 129ms/step - accuracy: 0.8617 - loss: 0.3655 - val_accuracy: 0.9319 - val_loss: 0.2177 Epoch 3/5 697/697 86s 124ms/step - accuracy: 0.9129 - loss: 0.2253 - val_accuracy: 0.9577 - val_loss: 0.1130 Epoch 4/5 697/697 86s 124ms/step - accuracy: 0.9375 - loss: 0.1696 - val_accuracy: 0.8924 - val_loss: 0.3352 Epoch 5/5 697/697 84s 120ms/step - accuracy: 0.9458 - loss: 0.1577 - val_accuracy: 0.9756 - val_loss: 0.0644