

Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID37523
Project Name	Emerging Methods for Early Detection of Forest Fires
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	3,453,121	<pre> Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 148, 148, 32) 896 max_pooling2d (MaxPooling2D) (None, 74, 74, 32) 0 conv2d_1 (Conv2D) (None, 72, 72, 64) 18496 max_pooling2d_1 (MaxPooling2 (None, 36, 36, 64) 0 conv2d_2 (Conv2D) (None, 34, 34, 128) 73856 max_pooling2d_2 (MaxPooling2 (None, 17, 17, 128) 0 conv2d_3 (Conv2D) (None, 15, 15, 128) 147584 max_pooling2d_3 (MaxPooling2 (None, 7, 7, 128) 0 flatten (Flatten) (None, 6272) 0 dense (Dense) (None, 512) 3211776 dense_1 (Dense) (None, 1) 513 ----- Total params: 3,453,121 Trainable params: 3,453,121 Non-trainable params: 0 </pre>
2.	Accuracy	<p>Training Accuracy - 0.9665</p> <p>Validation Accuracy -0.9833</p>	<pre> Epoch 1/10 14/14 [=====] - 96s 7s/step - loss: 0.5717 - accuracy: 0.6552 - val_loss: 0.2885 - val_accuracy: 0.8750 Epoch 2/10 14/14 [=====] - 84s 6s/step - loss: 0.3266 - accuracy: 0.8434 - val_loss: 0.1193 - val_accuracy: 0.9667 Epoch 3/10 14/14 [=====] - 74s 5s/step - loss: 0.2247 - accuracy: 0.9227 - val_loss: 0.1184 - val_accuracy: 0.9500 Epoch 4/10 14/14 [=====] - 75s 5s/step - loss: 0.1682 - accuracy: 0.9425 - val_loss: 0.0206 - val_accuracy: 1.0000 Epoch 5/10 14/14 [=====] - 82s 6s/step - loss: 0.1173 - accuracy: 0.9610 - val_loss: 0.0631 - val_accuracy: 0.9667 Epoch 6/10 14/14 [=====] - 76s 6s/step - loss: 0.0925 - accuracy: 0.9741 - val_loss: 0.0169 - val_accuracy: 1.0000 Epoch 7/10 14/14 [=====] - 80s 6s/step - loss: 0.0884 - accuracy: 0.9724 - val_loss: 0.0194 - val_accuracy: 1.0000 Epoch 8/10 14/14 [=====] - 72s 5s/step - loss: 0.1030 - accuracy: 0.9661 - val_loss: 0.0455 - val_accuracy: 0.9833 Epoch 9/10 14/14 [=====] - 70s 5s/step - loss: 0.1032 - accuracy: 0.9676 - val_loss: 0.0044 - val_accuracy: 1.0000 Epoch 10/10 14/14 [=====] - 92s 6s/step - loss: 0.1144 - accuracy: 0.9665 - val_loss: 0.0807 - val_accuracy: 0.9833 </pre>

