

## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID48059
Project Name	Emerging methods for Early Detection Of Forests Fires
Maximum Marks	10 Marks

### Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	<p>Total params: 201,741</p> <p>Trainable params: 201,741</p> <p>Non-trainable params: 0</p>	<pre> Model: "sequential" Layer (type)                Output Shape              Param # ----- conv2d (Conv2D)             (None, 128, 128, 32)     896 max_pooling2d (MaxPooling2D) (None, 63, 63, 32)       0 conv2d_1 (Conv2D)           (None, 61, 61, 32)       9248 max_pooling2d_1 (MaxPooling2D) (None, 30, 30, 32)       0 conv2d_2 (Conv2D)           (None, 28, 28, 32)       9248 max_pooling2d_2 (MaxPooling2D) (None, 14, 14, 32)       0 conv2d_3 (Conv2D)           (None, 12, 12, 32)       9248 max_pooling2d_3 (MaxPooling2D) (None, 6, 6, 32)         0 flatten (Flatten)           (None, 1152)              0 dense (Dense)               (None, 150)              172950 dense_1 (Dense)             (None, 1)                 151 ----- Total params: 201,741 Trainable params: 201,741 Non-trainable params: 0 </pre>
2.	Accuracy	<p>Training Accuracy – 92.28</p> <p>Validation Accuracy -92.28</p>	<pre> Epoch 1/5 24/24 [=====] - 135s 561Step - Loss: 0.5551 - accuracy: 0.9246 - val_loss: 0.5710 - val_accuracy: 0.9228 Epoch 2/5 24/24 [=====] - 77s 561Step - Loss: 0.5395 - accuracy: 0.9278 - val_loss: 0.5348 - val_accuracy: 0.9227 Epoch 3/5 24/24 [=====] - 74s 561Step - Loss: 0.5276 - accuracy: 0.9304 - val_loss: 0.5728 - val_accuracy: 0.9227 Epoch 4/5 24/24 [=====] - 72s 561Step - Loss: 0.5220 - accuracy: 0.9306 - val_loss: 0.5699 - val_accuracy: 0.9227 Epoch 5/5 24/24 [=====] - 75s 561Step - Loss: 0.5038 - accuracy: 0.9324 - val_loss: 0.5599 - val_accuracy: 0.9228 </pre>
3.	Confidence Score (Only Yolo Projects)	<p>Class Detected – No Danger</p> <p>Confidence Score – 93.067</p>	<pre> [0] 0.93067 No Danger [1] 0.00000 No Danger [2] 0.00000 No Danger [3] 0.00000 No Danger [4] 0.00000 No Danger [5] 0.00000 No Danger [6] 0.00000 No Danger [7] 0.00000 No Danger [8] 0.00000 No Danger [9] 0.00000 No Danger [10] 0.00000 No Danger [11] 0.00000 No Danger [12] 0.00000 No Danger [13] 0.00000 No Danger [14] 0.00000 No Danger [15] 0.00000 No Danger [16] 0.00000 No Danger [17] 0.00000 No Danger [18] 0.00000 No Danger [19] 0.00000 No Danger [20] 0.00000 No Danger [21] 0.00000 No Danger [22] 0.00000 No Danger [23] 0.00000 No Danger [24] 0.00000 No Danger [25] 0.00000 No Danger [26] 0.00000 No Danger [27] 0.00000 No Danger [28] 0.00000 No Danger [29] 0.00000 No Danger [30] 0.00000 No Danger [31] 0.00000 No Danger [32] 0.00000 No Danger [33] 0.00000 No Danger [34] 0.00000 No Danger [35] 0.00000 No Danger [36] 0.00000 No Danger [37] 0.00000 No Danger [38] 0.00000 No Danger [39] 0.00000 No Danger [40] 0.00000 No Danger [41] 0.00000 No Danger [42] 0.00000 No Danger [43] 0.00000 No Danger [44] 0.00000 No Danger [45] 0.00000 No Danger [46] 0.00000 No Danger [47] 0.00000 No Danger [48] 0.00000 No Danger [49] 0.00000 No Danger [50] 0.00000 No Danger [51] 0.00000 No Danger [52] 0.00000 No Danger [53] 0.00000 No Danger [54] 0.00000 No Danger [55] 0.00000 No Danger [56] 0.00000 No Danger [57] 0.00000 No Danger [58] 0.00000 No Danger [59] 0.00000 No Danger [60] 0.00000 No Danger [61] 0.00000 No Danger [62] 0.00000 No Danger [63] 0.00000 No Danger [64] 0.00000 No Danger [65] 0.00000 No Danger [66] 0.00000 No Danger [67] 0.00000 No Danger [68] 0.00000 No Danger [69] 0.00000 No Danger [70] 0.00000 No Danger [71] 0.00000 No Danger [72] 0.00000 No Danger [73] 0.00000 No Danger [74] 0.00000 No Danger [75] 0.00000 No Danger [76] 0.00000 No Danger [77] 0.00000 No Danger [78] 0.00000 No Danger [79] 0.00000 No Danger [80] 0.00000 No Danger [81] 0.00000 No Danger [82] 0.00000 No Danger [83] 0.00000 No Danger [84] 0.00000 No Danger [85] 0.00000 No Danger [86] 0.00000 No Danger [87] 0.00000 No Danger [88] 0.00000 No Danger [89] 0.00000 No Danger [90] 0.00000 No Danger [91] 0.00000 No Danger [92] 0.00000 No Danger [93] 0.00000 No Danger [94] 0.00000 No Danger [95] 0.00000 No Danger [96] 0.00000 No Danger [97] 0.00000 No Danger [98] 0.00000 No Danger [99] 0.00000 No Danger </pre>