

Oil Accuracy

- Testing with 20% of the dataset that is 146 images.
(60% for Fire data, and 40% for Normal data (Non-Fire)).

CM		Predicted	
		1	0
Actual	1	88	0
	0	36	22

- $\text{Accuracy} = (\text{TP} + \text{TN}) / (\text{TP} + \text{FP} + \text{FN} + \text{TN})$
 $= (88 + 22) / (88 + 0 + 36 + 22) = 75.34\%$
- $\text{Precision} = \text{TP} / (\text{TP} + \text{FP})$
 $= 88 / (88 + 36) = 70.97\%$
- $\text{Recall} = \text{TP} / (\text{TP} + \text{FN})$
 $= 88 / (88 + 0) = 100\%$
- $\text{F1Score} = 2 * ((\text{Precision} * \text{Recall}) / (\text{Precision} + \text{Recall}))$
 $= 2 * ((70.97 * 100) / (70.97 + 100))$
 $= 83.02\%$