

Oil Accuracy

- Testing with 20% of the dataset that is 1000 images.
(60% for Oil data, and 40% for Normal data (Non-Oil)).

CM		Predicted	
		1	0
Actual	1	579	21
	0	172	228

- Accuracy = $(TP+TN)/(TP+FP+FN+TN)$
 $= (579+228)/(579+21+172+228) = 80.7\%$
- Precision = $TP/(TP+FP)$
 $= 579 / (579+172) = 77.1\%$
- Recall = $TP/(TP+FN)$
 $= 579 / (579+21) = 96.5\%$

- F1Score =
$$2 * ((\text{Precision} * \text{Recall}) / (\text{Precision} + \text{Recall}))$$
$$= 2 * ((77.1 * 96.5) / (77.1 + 96.5)) = 85.72\%$$