
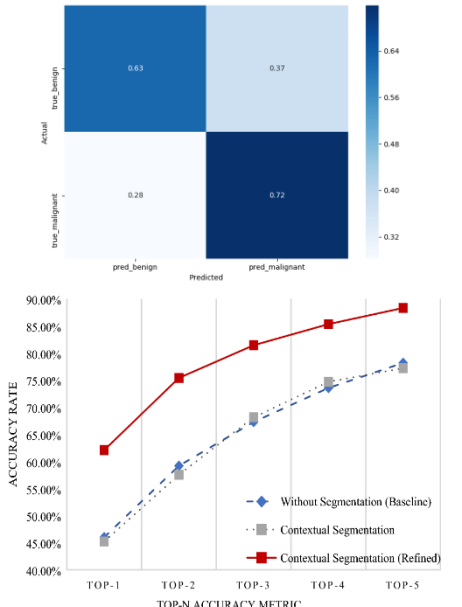


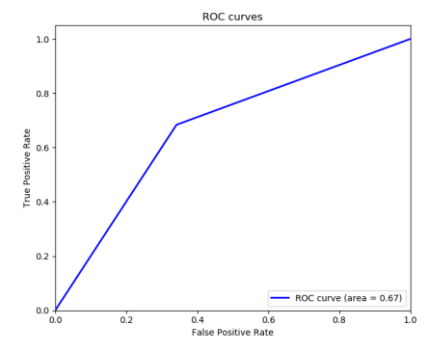
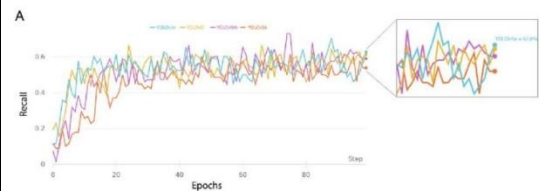
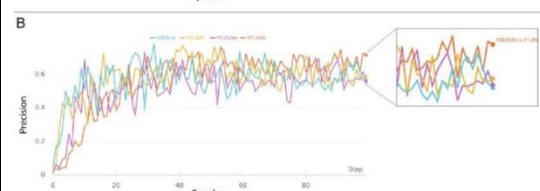
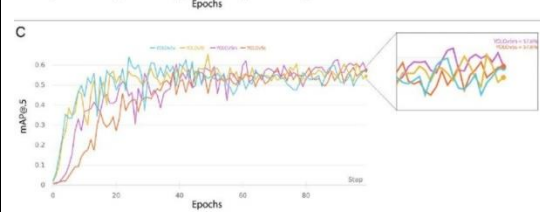
Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID07139
Project Name	Project - AI-based localization and classification of skin disease with erythema
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	-																																		
2.	Accuracy	Training Accuracy – 80% Validation Accuracy - 87%	 <p>Confusion Matrix Data:</p> <table><tr><th></th><th>pred_benign</th><th>pred_malignant</th></tr><tr><th>Actual benign</th><td>0.63</td><td>0.37</td></tr><tr><th>Actual malignant</th><td>0.28</td><td>0.72</td></tr></table> <p>Accuracy Rate Data (Estimated):</p> <table><tr><th>TOP-N ACCURACY METRIC</th><th>Without Segmentation (Baseline)</th><th>Contextual Segmentation</th><th>Contextual Segmentation (Refined)</th></tr><tr><td>TOP-1</td><td>45.00%</td><td>45.00%</td><td>62.00%</td></tr><tr><td>TOP-2</td><td>55.00%</td><td>58.00%</td><td>75.00%</td></tr><tr><td>TOP-3</td><td>65.00%</td><td>68.00%</td><td>82.00%</td></tr><tr><td>TOP-4</td><td>72.00%</td><td>75.00%</td><td>85.00%</td></tr><tr><td>TOP-5</td><td>78.00%</td><td>80.00%</td><td>88.00%</td></tr></table>		pred_benign	pred_malignant	Actual benign	0.63	0.37	Actual malignant	0.28	0.72	TOP-N ACCURACY METRIC	Without Segmentation (Baseline)	Contextual Segmentation	Contextual Segmentation (Refined)	TOP-1	45.00%	45.00%	62.00%	TOP-2	55.00%	58.00%	75.00%	TOP-3	65.00%	68.00%	82.00%	TOP-4	72.00%	75.00%	85.00%	TOP-5	78.00%	80.00%	88.00%
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3.	Confidence Score (Only Yolo Projects)	Class Detected – 0.717 Confidence Score – 0.625	<div data-bbox="941 210 1364 546"><p>ROC curves</p><p>True Positive Rate</p><p>False Positive Rate</p><p>ROC curve (area = 0.67)</p></div> <div data-bbox="925 567 1461 1155"><p>A</p><p>Recall</p><p>Epochs</p><p>100ep</p><p>B</p><p>Precision</p><p>Epochs</p><p>100ep</p><p>C</p><p>mAP@.5</p><p>Epochs</p><p>100ep</p></div>
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