

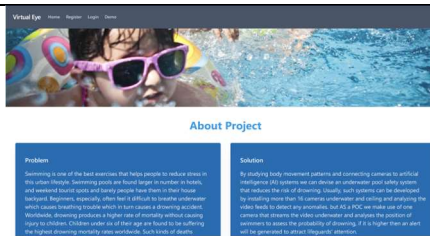
Project Development Phase

Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35895
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
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 – 28% Validation Accuracy – 44%	<p>GeForce RTX 2080 Ti:</p> <table><thead><tr><th>Network Size</th><th>Darknet, FPS (avg)</th><th>tsDNN TensorRT FP32, FPS</th><th>tsKONN TensorRT FP16, FPS</th><th>OpenCV FP16, FPS</th><th>tsDNN TensorRT FP16 batch=4, FPS</th><th>OpenCV FP16 batch=4, FPS</th><th>tsDNN Speedup</th></tr></thead><tbody><tr><td>320</td><td>100</td><td>116</td><td>202</td><td>183</td><td>423</td><td>430</td><td>4.3x</td></tr><tr><td>416</td><td>82</td><td>101</td><td>162</td><td>150</td><td>294</td><td>294</td><td>3.6x</td></tr><tr><td>512</td><td>69</td><td>91</td><td>134</td><td>138</td><td>206</td><td>216</td><td>3.1x</td></tr><tr><td>608</td><td>53</td><td>62</td><td>103</td><td>115</td><td>150</td><td>150</td><td>2.8x</td></tr><tr><td>Tiny 416</td><td>443</td><td>609</td><td>790</td><td>773</td><td>1774</td><td>1353</td><td>3.5x</td></tr><tr><td>Tiny 416 CPU Core i7 7700HQ</td><td>3.4</td><td>-</td><td>-</td><td>42</td><td>-</td><td>39</td><td>12x</td></tr></tbody></table>	Network Size	Darknet, FPS (avg)	tsDNN TensorRT FP32, FPS	tsKONN TensorRT FP16, FPS	OpenCV FP16, FPS	tsDNN TensorRT FP16 batch=4, FPS	OpenCV FP16 batch=4, FPS	tsDNN Speedup	320	100	116	202	183	423	430	4.3x	416	82	101	162	150	294	294	3.6x	512	69	91	134	138	206	216	3.1x	608	53	62	103	115	150	150	2.8x	Tiny 416	443	609	790	773	1774	1353	3.5x	Tiny 416 CPU Core i7 7700HQ	3.4	-	-	42	-	39	12x
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3.	Confidence Score (Only Yolo Projects)	Class Detected - Person Confidence Score – 87.23%	