

Project Development Phase

Model Performance Test

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS47450
Project Name	prosperity prognosticator: machine learning for startup success prediction
Maximum Marks	10 Marks

Model Performance Testing:

Our project Model Performance Testing:

S.No.	Parameter	Values	Screenshot																																						
1.	Trained a Deep Learning CNN model for Startup Success Prediction	<ul style="list-style-type: none"> Data Set: Startup Success Prediction dataset (startup characteristics, funding, market and operational features) Image Classification using Random Forest Classifier (best performing model) Train-Test Split: 70 – 30% Evaluation Metrics Used: Accuracy, Precision, Recall, F1-score, Confusion Matrix Final Test Accuracy: 98.58% 	<p>Training Accuracy : 1.0 Testing Accuracy : 0.7906137184115524</p> <table border="1"> <thead> <tr> <th></th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <th>0</th> <td>58</td> <td>40</td> </tr> <tr> <th>1</th> <td>18</td> <td>161</td> </tr> </tbody> </table> <p>precision recall f1-score support</p> <table border="1"> <thead> <tr> <th></th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr> <th>0</th> <td>0.76</td> <td>0.59</td> <td>0.67</td> <td>98</td> </tr> <tr> <th>1</th> <td>0.80</td> <td>0.90</td> <td>0.85</td> <td>179</td> </tr> </tbody> </table> <p>accuracy macro avg weighted avg</p> <table border="1"> <thead> <tr> <th></th> <th>accuracy</th> <th>macro avg</th> <th>weighted avg</th> </tr> </thead> <tbody> <tr> <td>accuracy</td> <td>0.79</td> <td>0.78</td> <td>0.79</td> </tr> <tr> <td>macro avg</td> <td>0.79</td> <td>0.75</td> <td>0.76</td> </tr> <tr> <td>weighted avg</td> <td>0.79</td> <td>0.79</td> <td>0.78</td> </tr> </tbody> </table> <hr/> <p>ROC Curves = 0.7456390377380002 Precision-Recall Curves = 0.8827091575581143</p>		0	1	0	58	40	1	18	161		0	1	0	0.76	0.59	0.67	98	1	0.80	0.90	0.85	179		accuracy	macro avg	weighted avg	accuracy	0.79	0.78	0.79	macro avg	0.79	0.75	0.76	weighted avg	0.79	0.79	0.78
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