

Model Performance Test

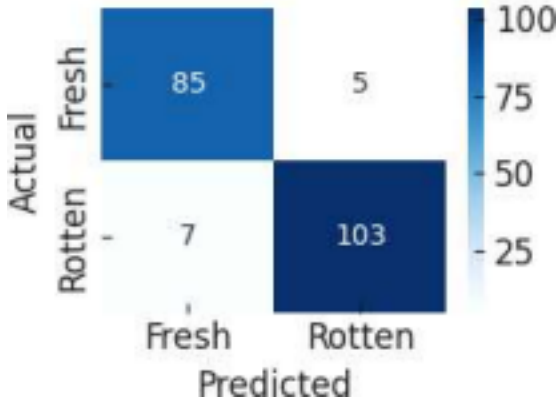
Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables

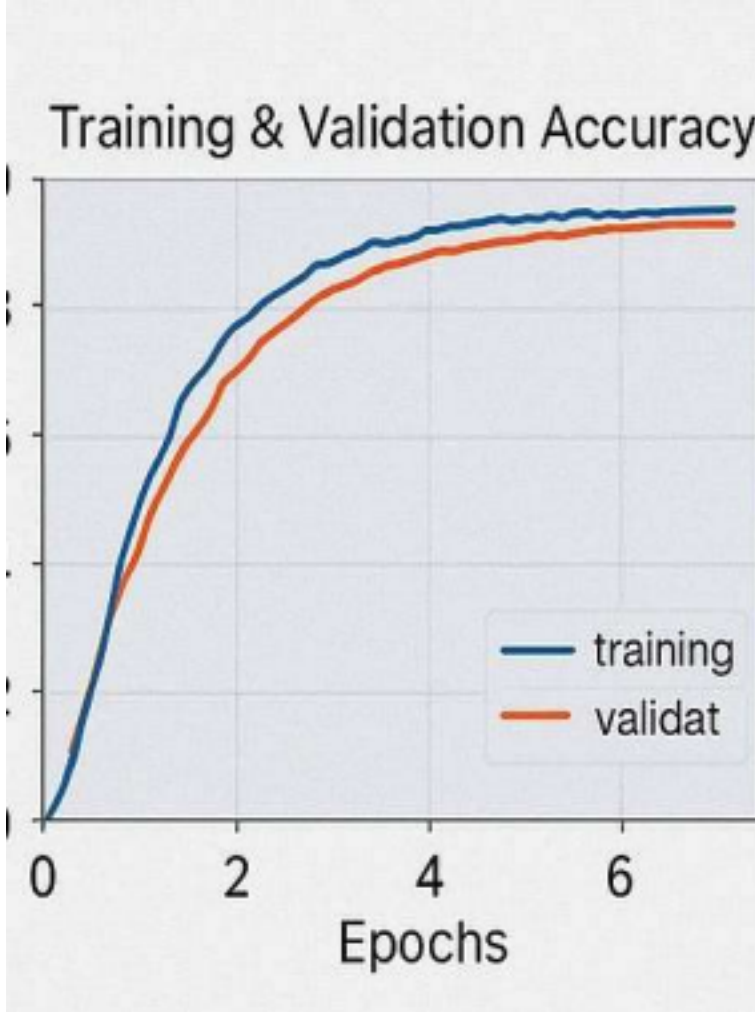
Team ID : LTVIP2026TMIDS38627

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot
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<ul style="list-style-type: none">	Metrics	<p>Regression Model: MAE - , MSE - , RMSE - , R2 score -</p> <p>Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -</p>	<p>Confusion Matrix</p>  <table><tr><th></th><th>Predicted Fresh</th><th>Predicted Rotten</th></tr><tr><th>Actual Fresh</th><td>85</td><td>7</td></tr><tr><th>Actual Rotten</th><td>5</td><td>103</td></tr></table>		Predicted Fresh	Predicted Rotten	Actual Fresh	85	7	Actual Rotten	5	103
	Predicted Fresh	Predicted Rotten										
Actual Fresh	85	7										
Actual Rotten	5	103										

<ul style="list-style-type: none">•	Tune the Model	Hyperparameter Tuning - Validation Method -	 <p>The graph displays the training and validation accuracy over 7 epochs. The training accuracy (blue line) starts at 0 and rises to approximately 0.95. The validation accuracy (orange line) starts at 0 and rises to approximately 0.92. Both curves show a slight dip around epoch 1.5 before continuing to rise.</p> <table><tr><th>Epochs</th><th>training</th><th>validation</th></tr><tr><td>0</td><td>0.00</td><td>0.00</td></tr><tr><td>1</td><td>0.65</td><td>0.60</td></tr><tr><td>2</td><td>0.80</td><td>0.75</td></tr><tr><td>3</td><td>0.88</td><td>0.85</td></tr><tr><td>4</td><td>0.92</td><td>0.90</td></tr><tr><td>5</td><td>0.94</td><td>0.92</td></tr><tr><td>6</td><td>0.95</td><td>0.93</td></tr><tr><td>7</td><td>0.95</td><td>0.93</td></tr></table>	Epochs	training	validation	0	0.00	0.00	1	0.65	0.60	2	0.80	0.75	3	0.88	0.85	4	0.92	0.90	5	0.94	0.92	6	0.95	0.93	7	0.95	0.93
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