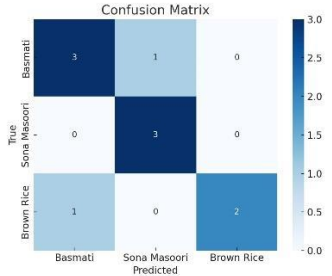



Project Development Phase Model Performance Test

Date	28 June 2025
Team ID	LTVIP2025TMID46874
Project Name	GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning
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.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	 <p>Confusion Matrix</p> <table border="1"><thead><tr><th></th><th>True Basmati</th><th>True Sona Masoori</th><th>True Brown Rice</th></tr></thead><tbody><tr><th>Predicted Basmati</th><td>3</td><td>0</td><td>1</td></tr><tr><th>Predicted Sona Masoori</th><td>1</td><td>3</td><td>0</td></tr><tr><th>Predicted Brown Rice</th><td>0</td><td>0</td><td>2</td></tr></tbody></table>		True Basmati	True Sona Masoori	True Brown Rice	Predicted Basmati	3	0	1	Predicted Sona Masoori	1	3	0	Predicted Brown Rice	0	0	2																	
	True Basmati	True Sona Masoori	True Brown Rice																																	
Predicted Basmati	3	0	1																																	
Predicted Sona Masoori	1	3	0																																	
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2.	Tune the Model	Hyperparameter Tuning - Validation Method -	 <p>Model Tuning: Training vs Validation Accuracy</p> <table border="1"><thead><tr><th>Epochs</th><th>Training Accuracy</th><th>Validation Accuracy</th></tr></thead><tbody><tr><td>1</td><td>0.60</td><td>0.55</td></tr><tr><td>2</td><td>0.65</td><td>0.60</td></tr><tr><td>3</td><td>0.70</td><td>0.65</td></tr><tr><td>4</td><td>0.75</td><td>0.70</td></tr><tr><td>5</td><td>0.80</td><td>0.75</td></tr><tr><td>6</td><td>0.85</td><td>0.80</td></tr><tr><td>7</td><td>0.90</td><td>0.85</td></tr><tr><td>8</td><td>0.92</td><td>0.88</td></tr><tr><td>9</td><td>0.94</td><td>0.90</td></tr><tr><td>10</td><td>0.95</td><td>0.92</td></tr></tbody></table>	Epochs	Training Accuracy	Validation Accuracy	1	0.60	0.55	2	0.65	0.60	3	0.70	0.65	4	0.75	0.70	5	0.80	0.75	6	0.85	0.80	7	0.90	0.85	8	0.92	0.88	9	0.94	0.90	10	0.95	0.92
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