Project Development Phase Model Performance Test

Date	19/05/2025-30/6/2025
Team ID	LTVIP2025TMID45017
Project Name	
	GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot			
1.	Model Summary	Used MobileNetV4 as base	odel'			
		model with transfer learning.	er (type) Output Shape			
		Added custom dense layers for	ilenetv4_1	(None, 2, 2, 64)	Connected to	
		classification of 5 rice types.	itten	(None, 256)	(inputs_[])	
			ise (Dense)	(None, 128)	flatten[0][
		Final layer uses softmax	nse_1 (Dense	(None, 5)	dense[0][0]	
		activation.	:al params: 1,888,365 i-trainable params: 0 :al params: 1,888,365 iinable params: 1,888,365 iinable params: 1,888,365 i-trainable params: 0			
2.	Accuracy	Training Accuracy: 98.5%	Training and Validation Accuracy			
		Validation Accuracy: 96.7%	0 5	10 15 Epoch	Training Accu	

3.	3. Fine Tunning Result(if Done)	Validation Accuracy after fine-tuning: 97.3%	Fine-tuning Training Log				
			Epoch	Accuracy	Loss	Val Accuracy	Val Loss
			0	0.757	0.892	0.898	0.457
			1	0.781	0.741	0.873	0.427
			2	0.838	0.733	0.892	0.401
		3	0.832	0.768	0.898	0.388	
		5	0.910	0.739	0.938	0.338	