Project Development Phase Model Performance Test

Date	30 June 2025
Team ID	LTVIP2025TMID37158
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	

Model Performance Testing:

Our project Model Performance Testing:

S.No.	Parameter	Values	Screenshot
			[27] The bounding was application loss of Wales
1.	Model Summary	Used transfer learning with VGG16	ten United State 1 (1997) 1997 19
		architecture.	Light (Tablable - False * here, partic integral * bisanthem agreeming(MC)(s) * best (Managhem agreeming(MC)(s) * best (MC) * be
		Input shape: (224, 224, 3)	<pre>mond. = Musclepois-Monagementd.imput, negation-productions) ment.comput(equation== mone , impus (stanguistat_roccountropy*, wetrustat("security")) monad.numery()</pre>
		Added custom dense layers at the	Socialization data from https://document.poolspace.com/dependents-associalization-conditional artists of the property of burnets. Socialization of the conditional artists of the conditional artists of the property of the conditional artists of the conditional artists of the property of the conditional artists of the conditional a
		•	Ingut_Layer (Croxit.eyer) (Nore, 224, 224, 3) 8 **Basek_xerns (Core20) (Nore, 224, 224, 66) 8,792
		top for classification.	Discri_conv2 (Conv20)
		Number of classes: 4	bloc2_curs((circl2)
		Base model layers frozen initially	
		for better generalization.	
			Testa Discrete: 14, 1991, (MIL 164, 1992) Yiraninin paramic (MIL 1991, (MIL 1992) Yiraninin paramic (MIL 1991, (MIL 1994) Men-trelindos paramic (MIL 1994, (MIL 1994))

2.	Accuracy	Training Accuracy - 97.85% Validation Accuracy 95.40% (after 5 epochs)-	ig) Import matplotlib.puplot as plt plt.plot(history.history('securacy'), label='Training Accuracy') plt.plot(history.history('val.accuracy'), label='Validation Accuracy') plt.tilet('risining vs Validation Accuracy') plt.vlabel('risoning') plt.vlabel('
3.	Fine Tunning Result(if Done)	Unfroze last 4 layers of VGG16 and retrained. Validation Accuracy after finetuning: 96.25%	pit.plat(fine_tune_Nistory.history('val_scoracg'), label='Fine-Tuned Validation Accuracy', color='green') pit.title('Validation Accuracy After Fine-Tuning') pit.lapend() pit.