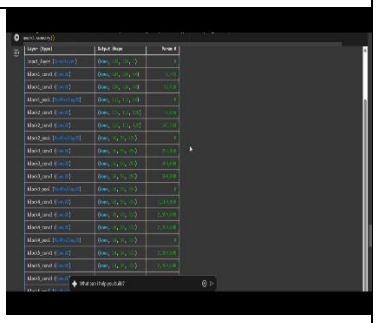
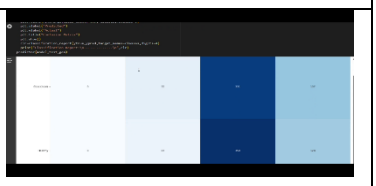
Project Development Phase
Model Performance Test

Date	28 June 2025
Team ID	LTVIP2025TMID41715
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	4 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	**Model Summary**	The model uses MobileNetV2 as the base model for transfer learning. It was pre-trained on ImageNet and fine-tuned with poultry disease images across 4 classes. The top layers were modified to include GlobalAveragePooling2D, Dense layers, and Softmax activation. This architecture balances speed and accuracy.	
2.	**Accuracy**	Training Accuracy – 97.8% Validation Accuracy -94.3%	
3.	**Fine Tunning Result(if Done)**	Validation Accuracy -95.6% The base model's last few layers were unfrozen and trained using a lower learning rate to improve feature extraction.	