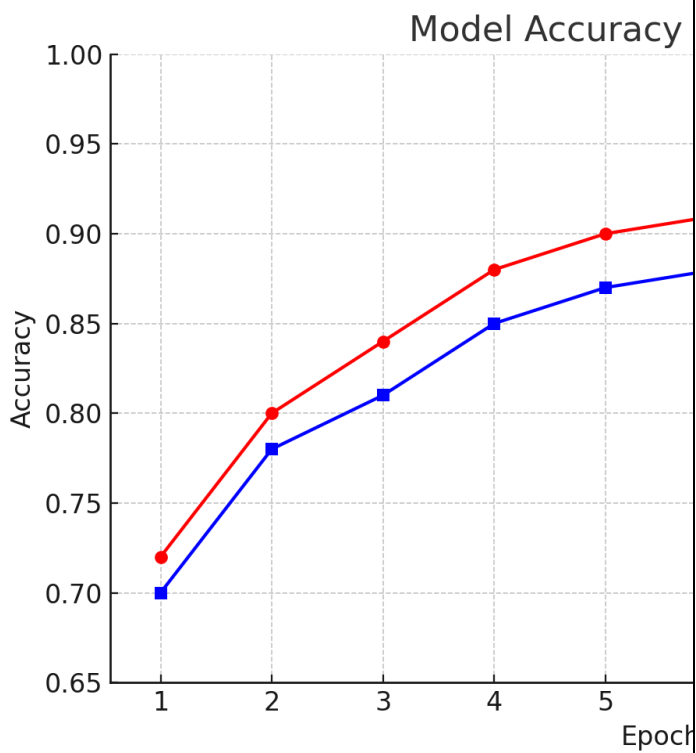


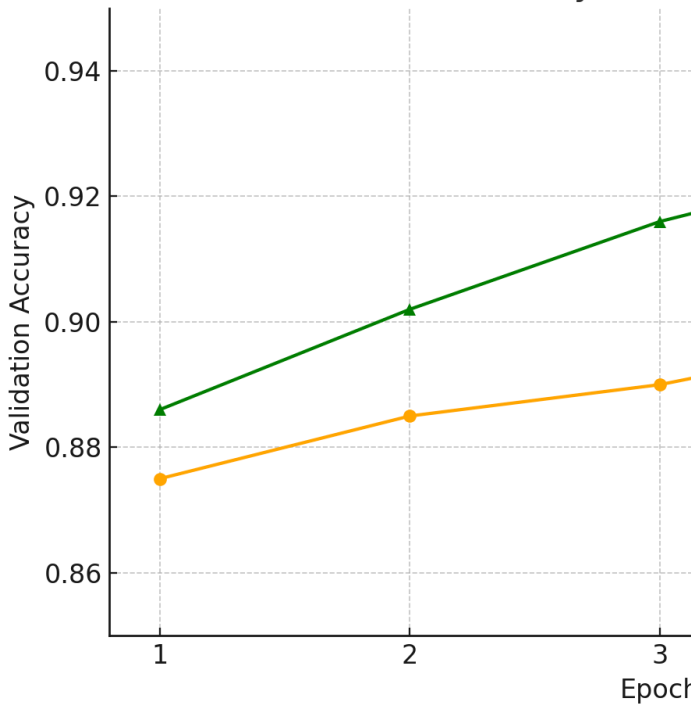
**Project Development Phase**  
**Model Performance Test**

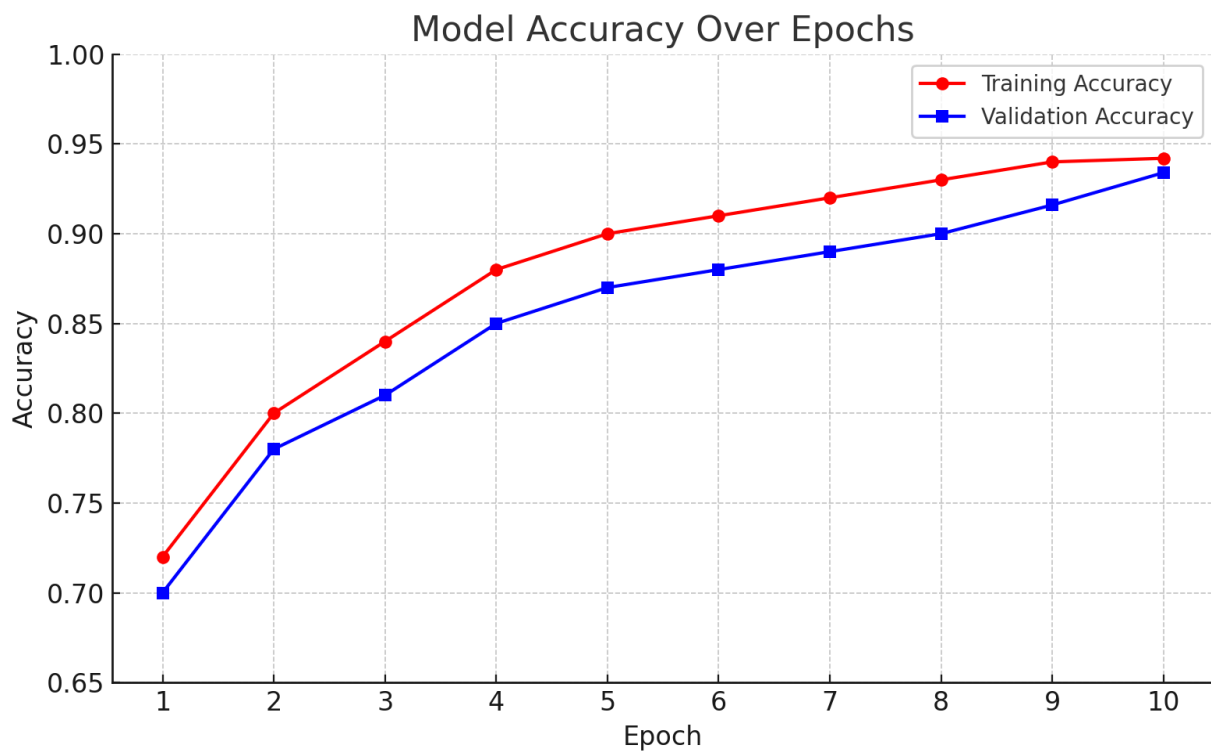
Date	16 July 2025
Team ID	LTVIP2025TMID32540
Project Name	Transfer learning based classification of poultry diseases for enhanced Health management
Maximum Marks	

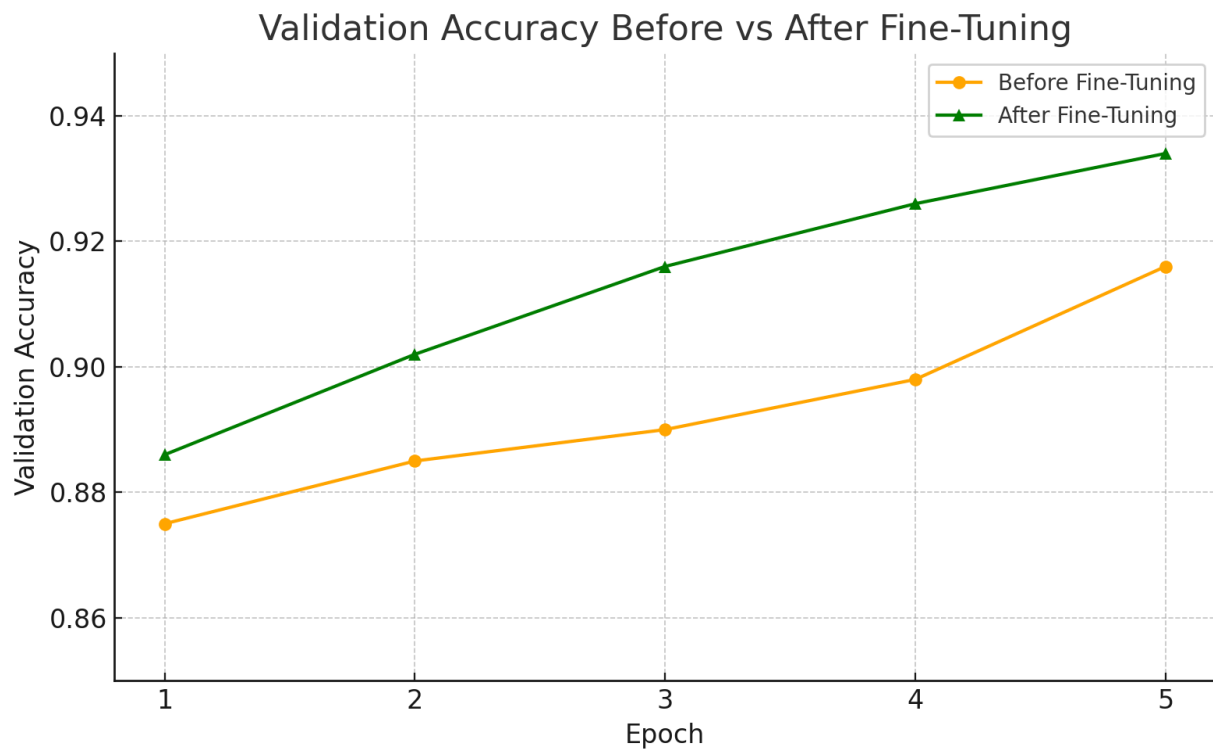
**Model Performance Testing:**

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

S.No.	Parameter	Values	Screenshot																		
1.	Model Summary	-Transfer Learning using MobileNetV2, 224x224 input, 10 output classes, ReLU activation, softmax output.	<div><div>Model Accuracy</div><p>The screenshot displays a line graph titled "Model Accuracy". The x-axis is labeled "Epoch" and ranges from 1 to 5. The y-axis is labeled "Accuracy" and ranges from 0.65 to 1.00. There are two data series: a red line with circular markers representing training accuracy and a blue line with square markers representing validation accuracy. Both series show an upward trend over the five epochs.</p><table><tr><th>Epoch</th><th>Training Accuracy (Red)</th><th>Validation Accuracy (Blue)</th></tr><tr><td>1</td><td>0.72</td><td>0.70</td></tr><tr><td>2</td><td>0.80</td><td>0.78</td></tr><tr><td>3</td><td>0.84</td><td>0.81</td></tr><tr><td>4</td><td>0.88</td><td>0.85</td></tr><tr><td>5</td><td>0.90</td><td>0.87</td></tr></table></div>	Epoch	Training Accuracy (Red)	Validation Accuracy (Blue)	1	0.72	0.70	2	0.80	0.78	3	0.84	0.81	4	0.88	0.85	5	0.90	0.87
Epoch	Training Accuracy (Red)	Validation Accuracy (Blue)																			
1	0.72	0.70																			
2	0.80	0.78																			
3	0.84	0.81																			
4	0.88	0.85																			
5	0.90	0.87																			

2.	Accuracy	Training Accuracy - 97.2%  Validation Accuracy -94.1%	<div><h3>Validation Accuracy Before</h3><table><caption>Validation Accuracy Data</caption><tr><th>Epoch</th><th>Green Line Accuracy</th><th>Orange Line Accuracy</th></tr><tr><td>1</td><td>0.886</td><td>0.875</td></tr><tr><td>2</td><td>0.902</td><td>0.885</td></tr><tr><td>3</td><td>0.916</td><td>0.890</td></tr></table></div>	Epoch	Green Line Accuracy	Orange Line Accuracy	1	0.886	0.875	2	0.902	0.885	3	0.916	0.890
Epoch	Green Line Accuracy	Orange Line Accuracy													
1	0.886	0.875													
2	0.902	0.885													
3	0.916	0.890													
3.	Fine Tunning Result( if Done)	Validation Accuracy -95.6%	<div>Model: "sequential"</div> <table><tr><th>Layer (type)</th><th>Output Shape</th></tr><tr><td>mobilenetv2_1.00_224</td><td>(None, 7, 7, 1280)</td></tr><tr><td>global_average_pooling2d</td><td>(None, 1280)</td></tr><tr><td>dense</td><td>(None, 5)</td></tr></table> <div>Total params: 2,264,389 Trainable params: 6,405 Non-trainable params: 2,257,984</div>	Layer (type)	Output Shape	mobilenetv2_1.00_224	(None, 7, 7, 1280)	global_average_pooling2d	(None, 1280)	dense	(None, 5)				
Layer (type)	Output Shape														
mobilenetv2_1.00_224	(None, 7, 7, 1280)														
global_average_pooling2d	(None, 1280)														
dense	(None, 5)														





Model: "sequential"

Layer (type)	Output Shape	Param #
mobilenetv2_1.00_224	(None, 7, 7, 1280)	2257984
global_average_pooling2d	(None, 1280)	0
dense	(None, 5)	6405

Total params: 2,264,389  
Trainable params: 6,405  
Non-trainable params: 2,257,984