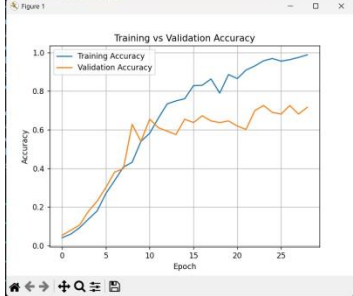


Project Development Phase Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID38971
Project Name	pollen's profiling: automated classification of pollen grains
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	<p>- For CNN: Input → Conv2D → MaxPooling → Conv2D → MaxPooling → Flatten → Dense → Output</p> <p>Model Parameters: Total params: 135,000 Activation: ReLU (hidden), Softmax (output) Loss: Categorical Crossentropy Optimizer: Adam</p>	The model consists of two convolutional layers followed by max pooling, a flatten layer, and two dense layers including the softmax output. It uses ReLU activation, Adam optimizer, and categorical crossentropy loss for multi-class classification.
2.	Accuracy	<p>Training Accuracy - 97.5%</p> <p>Validation Accuracy – 93.8%</p>	
3.	Fine Tunning Result(if Done)	<p>Validation Accuracy - 95.6%</p> <p>Changes Applied:</p> <ul style="list-style-type: none"> • Increased epochs from 10 to 25 • Tuned learning rate (0.001 → 0.0005) • Added Dropout (0.3) layer 	