**MODEL SUMMARY:**

A CNN (Convolutional Neural Network) was selected to classify the photos. An artificial neural network type utilized for image processing and recognition is called a convolutional neural network (CNN). ConvNets are another name for CNNs. A popular subclass of neural networks in computer vision is these. They work well when utilising several layers to extract features from data.

**Convolutional Neural Networks (CNNs) comprise three primary components:**

1. **Convolution Layers:**

These layers extract features from input data by utilizing filters to identify patterns within images. By sliding these filters across the image and performing calculations, they generate feature maps.

2. **Activation Functions:**

These functions introduce non-linearities to the model. Popular ones like ReLU and Sigmoid enhance the network's learning capability.

3. **Pooling Layers:**

They reduce input data parameters. Main types are max pooling and average pooling, which condense feature maps.

*The training process involves:*

**Image Processing:** Involves converting, resizing, and transforming images into NumPy arrays.

**Model Architecture:** Comprises a sequential CNN structure with layers like convolutional, pooling, flattening, dense, and output layers with various units and activations.

**Model Compilation:** Involves compiling the model using specific optimizer, loss function, and metrics.

**Model Training:** Includes data splitting, normalization, and training the model over multiple epochs.

**Insights:**

* The model achieved an 84% accuracy on the test set, but its performance might be limited by the small dataset (150 images).
* Enhancing performance could involve expanding and diversifying the dataset and trying out regularization techniques.