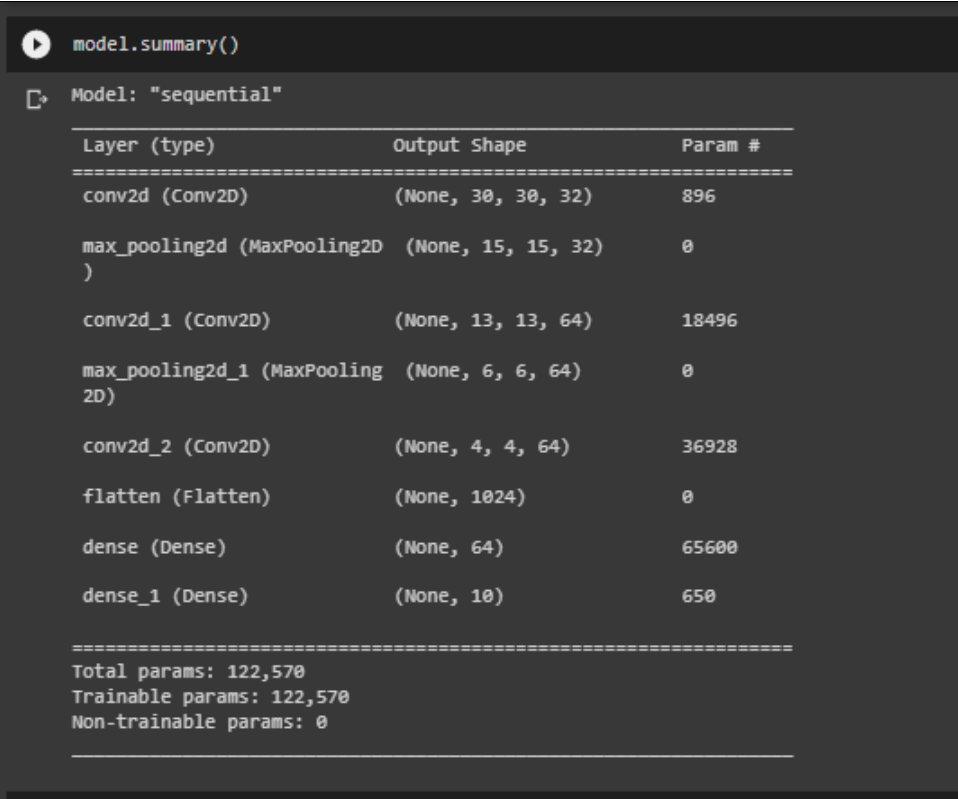


Project Development Phase Model Performance Test

Date	14 November 2022
Team ID	PNT2022TMID51066
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	<p>Total parameters: 122,570</p> <p>Train parameters: 122,570</p> <p>Non trainable parameters: 0</p>	 <pre> model.summary() Model: "sequential" _____ Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 30, 30, 32) 896 max_pooling2d (MaxPooling2D) (None, 15, 15, 32) 0 conv2d_1 (Conv2D) (None, 13, 13, 64) 18496 max_pooling2d_1 (MaxPooling2D) (None, 6, 6, 64) 0 conv2d_2 (Conv2D) (None, 4, 4, 64) 36928 flatten (Flatten) (None, 1024) 0 dense (Dense) (None, 64) 65600 dense_1 (Dense) (None, 10) 650 ----- Total params: 122,570 Trainable params: 122,570 Non-trainable params: 0 </pre>

2.	Accuracy	Training Accuracy – 79% Validation Accuracy - 72%	<div><div>✓</div><pre>[16] history = model.fit(train_images, train_labels, epochs=10, validation_data=(test_images, test_labels)) Epoch 1/10 1563/1563 [=====] - 83s 53ms/step - loss: 1.5055 - accuracy: 0.4557 - val_loss: 1.1985 - val_accuracy: 0.5770 Epoch 2/10 1563/1563 [=====] - 78s 50ms/step - loss: 1.1320 - accuracy: 0.6014 - val_loss: 1.0676 - val_accuracy: 0.6261 Epoch 3/10 1563/1563 [=====] - 76s 49ms/step - loss: 0.9748 - accuracy: 0.6556 - val_loss: 1.0061 - val_accuracy: 0.6506 Epoch 4/10 1563/1563 [=====] - 78s 50ms/step - loss: 0.8825 - accuracy: 0.6906 - val_loss: 0.9767 - val_accuracy: 0.6707 Epoch 5/10 1563/1563 [=====] - 76s 49ms/step - loss: 0.8059 - accuracy: 0.7192 - val_loss: 0.9129 - val_accuracy: 0.6876 Epoch 6/10 1563/1563 [=====] - 78s 50ms/step - loss: 0.7537 - accuracy: 0.7356 - val_loss: 0.8510 - val_accuracy: 0.7098 Epoch 7/10 1563/1563 [=====] - 78s 50ms/step - loss: 0.6993 - accuracy: 0.7567 - val_loss: 0.8377 - val_accuracy: 0.7190 Epoch 8/10 1563/1563 [=====] - 78s 50ms/step - loss: 0.6531 - accuracy: 0.7709 - val_loss: 0.8465 - val_accuracy: 0.7175 Epoch 9/10 1563/1563 [=====] - 76s 49ms/step - loss: 0.6104 - accuracy: 0.7849 - val_loss: 0.8269 - val_accuracy: 0.7250 Epoch 10/10 1563/1563 [=====] - 78s 50ms/step - loss: 0.5743 - accuracy: 0.7977 - val_loss: 0.8723 - val_accuracy: 0.7218</pre></div>
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