

# Model Building

## Train The Model

Title	AI powered nutrition analyzer for fitness enthusiasts
College Name	AVS College of Technology
Team Id	PNT2022TMID42147

Train The Model:

```
In [20]: classifier.fit_generator(  
          generator=x_train, steps_per_epoch = len(x_train),  
          epochs=10, validation_data=x_test, validation_steps = len(x_test))
```

Epoch 1/10  
1/526 [.....] - ETA: 33s - loss: 2.8299e-05 - accuracy: 1.0000

C:\Users\Walan\AppData\Local\Temp\ipykernel\_9560\5242859618.py:1: UserWarning: 'Model.fit\_generator' is deprecated and will be removed in a future version. Please use 'Model.fit', which supports generators.  
classifier.fit\_generator(  
526/526 [=====] - 18s 35ms/step - loss: 2.1247e-05 - accuracy: 1.0000 - val\_loss: 3.7044e-06 - val\_accuracy: 1.0000

Epoch 2/10  
526/526 [=====] - 18s 34ms/step - loss: 1.8900e-05 - accuracy: 1.0000 - val\_loss: 1.0035e-06 - val\_accuracy: 1.0000

Epoch 3/10  
526/526 [=====] - 18s 35ms/step - loss: 8.7728e-06 - accuracy: 1.0000 - val\_loss: 7.1700e-07 - val\_accuracy: 1.0000

Epoch 4/10  
526/526 [=====] - 18s 34ms/step - loss: 5.8756e-06 - accuracy: 1.0000 - val\_loss: 4.1409e-07 - val\_accuracy: 1.0000

Epoch 5/10  
526/526 [=====] - 18s 33ms/step - loss: 2.1899e-06 - accuracy: 1.0000 - val\_loss: 3.1931e-07 - val\_accuracy: 1.0000

Epoch 6/10  
526/526 [=====] - 18s 34ms/step - loss: 1.9907e-06 - accuracy: 1.0000 - val\_loss: 2.8885e-07 - val\_accuracy: 1.0000

Epoch 7/10  
526/526 [=====] - 18s 35ms/step - loss: 1.1279e-06 - accuracy: 1.0000 - val\_loss: 1.6102e-07 - val\_accuracy: 1.0000

Epoch 8/10  
526/526 [=====] - 18s 34ms/step - loss: 1.1601e-06 - accuracy: 1.0000 - val\_loss: 1.3224e-07 - val\_accuracy: 1.0000

Epoch 9/10  
526/526 [=====] - 18s 34ms/step - loss: 1.3742e-06 - accuracy: 1.0000 - val\_loss: 1.9565e-07 - val\_accuracy: 1.0000

Epoch 10/10  
526/526 [=====] - 19s 35ms/step - loss: 5.9168e-07 - accuracy: 1.0000 - val\_loss: 8.3074e-08 - val\_accuracy: 1.0000