

## Sprint 3:

### Train The Model

Team ID	PNT2022TMID51161
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts

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

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future ver
"""Entry point for launching an IPython kernel.
Epoch 1/20
824/824 [=====] - 56s 66ms/step - loss: 0.6444 - accuracy: 0.7402 - val_loss: 0.3226 - val_accuracy: 0.9100
Epoch 2/20
824/824 [=====] - 55s 67ms/step - loss: 0.4196 - accuracy: 0.8378 - val_loss: 0.1609 - val_accuracy: 0.9555
Epoch 3/20
824/824 [=====] - 56s 68ms/step - loss: 0.3891 - accuracy: 0.8536 - val_loss: 0.2774 - val_accuracy: 0.9194
Epoch 4/20
824/824 [=====] - 57s 69ms/step - loss: 0.3600 - accuracy: 0.8616 - val_loss: 0.4392 - val_accuracy: 0.8825
Epoch 5/20
824/824 [=====] - 59s 71ms/step - loss: 0.3445 - accuracy: 0.8655 - val_loss: 0.2860 - val_accuracy: 0.8957
Epoch 6/20
824/824 [=====] - 57s 69ms/step - loss: 0.3159 - accuracy: 0.8813 - val_loss: 0.3513 - val_accuracy: 0.9223
Epoch 7/20
824/824 [=====] - 60s 73ms/step - loss: 0.2947 - accuracy: 0.8849 - val_loss: 0.3356 - val_accuracy: 0.9137
Epoch 8/20
824/824 [=====] - 61s 74ms/step - loss: 0.2944 - accuracy: 0.8907 - val_loss: 0.3706 - val_accuracy: 0.9156
Epoch 9/20
824/824 [=====] - 56s 68ms/step - loss: 0.2779 - accuracy: 0.8953 - val_loss: 0.8137 - val_accuracy: 0.8284
Epoch 10/20
824/824 [=====] - 58s 70ms/step - loss: 0.2480 - accuracy: 0.9019 - val_loss: 0.9453 - val_accuracy: 0.8104
Epoch 11/20
824/824 [=====] - 55s 66ms/step - loss: 0.2425 - accuracy: 0.9068 - val_loss: 1.0670 - val_accuracy: 0.8417
Epoch 12/20
824/824 [=====] - 58s 71ms/step - loss: 0.2209 - accuracy: 0.9140 - val_loss: 0.4094 - val_accuracy: 0.8768
Epoch 13/20
824/824 [=====] - 55s 66ms/step - loss: 0.2039 - accuracy: 0.9208 - val_loss: 0.5498 - val_accuracy: 0.8872
Epoch 14/20
824/824 [=====] - 57s 69ms/step - loss: 0.2126 - accuracy: 0.9177 - val_loss: 1.1146 - val_accuracy: 0.8332
Epoch 15/20
824/824 [=====] - 51s 62ms/step - loss: 0.1969 - accuracy: 0.9296 - val_loss: 0.8187 - val_accuracy: 0.8787
Epoch 16/20
824/824 [=====] - 53s 65ms/step - loss: 0.1886 - accuracy: 0.9315 - val_loss: 0.5213 - val_accuracy: 0.8900
Epoch 17/20
824/824 [=====] - 53s 65ms/step - loss: 0.1846 - accuracy: 0.9325 - val_loss: 1.0805 - val_accuracy: 0.8227
Epoch 18/20
824/824 [=====] - 56s 68ms/step - loss: 0.1497 - accuracy: 0.9412 - val_loss: 0.7909 - val_accuracy: 0.8682
Epoch 19/20
824/824 [=====] - 51s 62ms/step - loss: 0.1497 - accuracy: 0.9398 - val_loss: 1.0699 - val_accuracy: 0.8209
Epoch 20/20
824/824 [=====] - 51s 62ms/step - loss: 0.1543 - accuracy: 0.9415 - val_loss: 0.3216 - val_accuracy: 0.9014
<keras.callbacks.History at 0x7f9522b7e650>
```