

# AI-Powered Nutrition Analyzer for Fitness Enthusiasts

## Model building

Team ID	PNT2022TMID26332
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

## Train The Model

6. Train The Model

```
#Fitting the model
classifier.fit_generator(generator=x_train,steps_per_epoch = len(x_train),epochs=20, validation_data=x_test,validation_steps = len(x_test))

Epoch 1/20
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:2: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please u

824/824 [=====] - 21s 16ms/step - loss: 0.6172 - accuracy: 0.7584 - val_loss: 0.4876 - val_accuracy: 0.8310
Epoch 2/20
824/824 [=====] - 13s 15ms/step - loss: 0.4115 - accuracy: 0.8422 - val_loss: 0.5115 - val_accuracy: 0.7998
Epoch 3/20
824/824 [=====] - 13s 16ms/step - loss: 0.3766 - accuracy: 0.8601 - val_loss: 0.4235 - val_accuracy: 0.8493
Epoch 4/20
824/824 [=====] - 13s 16ms/step - loss: 0.3484 - accuracy: 0.8701 - val_loss: 0.4452 - val_accuracy: 0.8310
Epoch 5/20
824/824 [=====] - 13s 16ms/step - loss: 0.3243 - accuracy: 0.8759 - val_loss: 0.4430 - val_accuracy: 0.8375
Epoch 6/20
824/824 [=====] - 13s 16ms/step - loss: 0.3240 - accuracy: 0.8783 - val_loss: 0.4549 - val_accuracy: 0.8213
Epoch 7/20
824/824 [=====] - 13s 16ms/step - loss: 0.2887 - accuracy: 0.8929 - val_loss: 0.4149 - val_accuracy: 0.8428
Epoch 8/20
824/824 [=====] - 13s 16ms/step - loss: 0.2728 - accuracy: 0.8983 - val_loss: 0.4038 - val_accuracy: 0.8601
Epoch 9/20
824/824 [=====] - 13s 16ms/step - loss: 0.2717 - accuracy: 0.8949 - val_loss: 0.4305 - val_accuracy: 0.8450
Epoch 10/20
824/824 [=====] - 14s 17ms/step - loss: 0.2365 - accuracy: 0.9150 - val_loss: 0.3886 - val_accuracy: 0.8730

Epoch 11/20
824/824 [=====] - 13s 15ms/step - loss: 0.2301 - accuracy: 0.9087 - val_loss: 0.3590 - val_accuracy: 0.8665
Epoch 12/20
824/824 [=====] - 13s 15ms/step - loss: 0.2083 - accuracy: 0.9179 - val_loss: 0.4406 - val_accuracy: 0.8547
Epoch 13/20
824/824 [=====] - 13s 15ms/step - loss: 0.2049 - accuracy: 0.9199 - val_loss: 0.3759 - val_accuracy: 0.8708
Epoch 14/20
824/824 [=====] - 12s 15ms/step - loss: 0.1930 - accuracy: 0.9337 - val_loss: 0.4108 - val_accuracy: 0.8611
Epoch 15/20
824/824 [=====] - 13s 15ms/step - loss: 0.1807 - accuracy: 0.9291 - val_loss: 0.4008 - val_accuracy: 0.8633
Epoch 16/20
824/824 [=====] - 13s 15ms/step - loss: 0.1712 - accuracy: 0.9301 - val_loss: 0.5149 - val_accuracy: 0.8837
Epoch 17/20
824/824 [=====] - 13s 15ms/step - loss: 0.1599 - accuracy: 0.9383 - val_loss: 0.5203 - val_accuracy: 0.8192
Epoch 18/20
824/824 [=====] - 13s 15ms/step - loss: 0.1619 - accuracy: 0.9439 - val_loss: 0.3615 - val_accuracy: 0.8859
Epoch 19/20
824/824 [=====] - 13s 15ms/step - loss: 0.1505 - accuracy: 0.9429 - val_loss: 0.3464 - val_accuracy: 0.8999
Epoch 20/20
824/824 [=====] - 12s 15ms/step - loss: 0.1211 - accuracy: 0.9534 - val_loss: 0.5068 - val_accuracy: 0.8827
<keras.callbacks.History at 0x7fd655833d90>
```

