Train The Model

Date	25 October 2022
Team ID	PNT2022TMID42999
Project Name	AI-powered nutrition analyzer for fitness enthusiasts

Train The Model:

The model is trained for 20 epochs and after every epoch, the current model state is saved if the model has the least loss encountered till that time.

We can see that the training loss decreases in almost every epoch till 20 epochs and probably there is further scope to improve the model.

Fit_generator functions used to train a deep learning neural network.

Arguments:

steps_per_epoch: it specifies the total number of steps taken from the generator as soon as one epoch is finished and the next epoch has started. We can calculate the value of steps_per_epoch as the total number of samples in your dataset divided by the batch size.

- Epochs: an integer and number of epochs we want to train our model for.
- validation_data can be either:
- an inputs and targets list
- a generator
- inputs, targets, and sample_weights list which can be used to evaluate the loss and metrics for any model after any epoch has ended

It specifies the total number of steps taken from the generator before it is stopped at every epoch and its value is calculated as the total number of validation data points in your dataset divided by the validation batch size.