

# AI-powered Nutrition Analyzer for Fitness Enthusiasts

## Importing The Model Building Libraries

<u>Date</u>	<u>04 November 2022</u>
<u>Project ID</u>	<u>PNT2022TMID37915</u>
<u>Project Name</u>	<u>AI-Powered nutrition analyser for fitness enthusiast</u>

Importing the necessary libraries

### ### Importing Neccessary Libraries

```
import numpy as np#used for numerical analysis
import tensorflow #open source used for both ML and DL for computation
from tensorflow.keras.models import Sequential #it is a plain stack of layers
from tensorflow.keras import layers #A layer consists of a tensor-in tensor-out computation function
#Dense Layer is the regular deeply connected neural network layer
from tensorflow.keras.layers import Dense,Flatten
#Falten-used fot flattening the input or change the dimension
from tensorflow.keras.layers import Conv2D,MaxPooling2D,Dropout #Convolutional layer
#MaxPooling2D-for downsampling the image
from keras.preprocessing.image import ImageDataGenerator
```