## Sprint-1

## **Image Preprocessing**

Date	29 October 2022
Team ID	PNT2022TMID04836
Project Name	Al-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	

## Dataset:

- ➤ In our dataset we have collected images of the five variety of fruits.
  - Apple
  - Orange
  - Pineapple
  - Watermelon
  - Banana

Drive link: <a href="https://drive.google.com/file/d/1jzDjV7jYcIzllieagaJdubMJ3YeLsry1/view?usp=share\_link">https://drive.google.com/file/d/1jzDjV7jYcIzllieagaJdubMJ3YeLsry1/view?usp=share\_link</a>

## → Data Collection

Download the dataset here

```
# Unzipping the dataset
!unzip '/content/Dataset.zip'
       inflating: Dataset/TRAIN_SET/WATERMELON/r_288_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_289_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_28_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_290_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_291_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 292 100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 293 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_294_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_295_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_296_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_297_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 298 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_299_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_29_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_2_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_300_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 301 100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 302 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_303_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 304 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_305_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_306_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 307 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_308_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 309 100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 30 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_310_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 311 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_312_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_313_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 314 100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 315 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_31_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 32 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_33_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_34_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 35 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_36_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_37_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_38_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_39_100.jpg
       inflating: Dataset/TRAIN SET/WATERMELON/r 3 100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_40_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_41_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_42_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_43_100.jpg
       inflating: Dataset/TRAIN_SET/WATERMELON/r_44_100.jpg
```

inflating: Dataset/TRAIN SET/WATERMELON/r 45 100.jpg

```
inflating: Dataset/TRAIN_SET/WATERMELON/r_46_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_4_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_50_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_57_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_5_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_6_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_7_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_81_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_8_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_8_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_9_100.jpg inflating: Dataset/TRAIN_SET/WATERMELON/r_9_100.jpg
```

 $\mathbb{T}$