

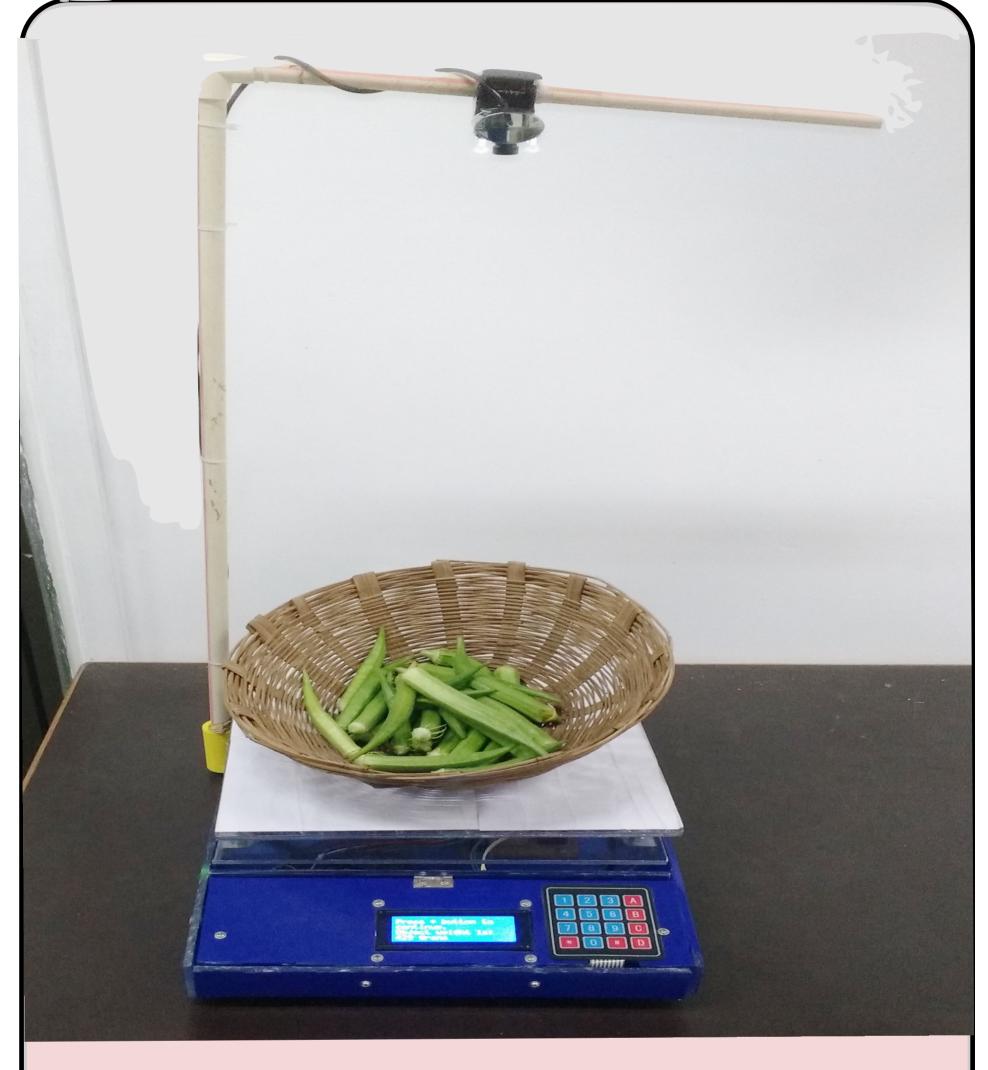
## Vegetable Identification using Transfer Learning

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## Objectives

- 1] To Identify and label vegetables from 18 different varities grown in the farm.
- 2] Integrate with logging system to automate the process.
- 3] Identified Vegetables, its quantity and image are automatically updated on GH Farm website.





Vegetables like
 Lady's finger, Cucumber,
 Tomato, Brinjal,
 Bitter Gourd, Bottle Gourd,
 Cabbage, Cauliflower,
 Spinach, Fenugreek,
 and many more can be identified.

## Methodology and Process Overview

- 1] Scrapped Images from Imagenet and took live images from market.
- 2] Final data: 27,000 Images.
- 3] Used Inception-v3 model for transfer learning.
- 4] Image captured during weighing is feeded back to the system for re-training that automatically occurs once in every 3 days.
- 5] Accuracy achieved: 99.5%



