





### ← Go Back to Introduction to Computer Vision

### 

# Problem Statement - Food Image Classification

# **Case Study: Food Image Classification**

#### Context:

Image classification has become less complicated with deep learning and the availability of larger datasets and computational assets. The convolution neural network is the most popular and extensively used image classification technique in recent days.

Clicks is a stock photography company and is an online source of images available for people and companies to download. Photographers from all over the world upload food-related images to the stock photography agency every day. Since the volume of the images that get uploaded daily will be high, it will be difficult for anyone to label the images manually.

Clicks have decided to use only three categories of food (**Bread**, **Soup**, and **Vegetables-Fruits**) for now, you as a data scientist at Clicks, need to build a classification model using a dataset consisting of images that would help to label the images into different categories.

#### **Dataset Information:**

The dataset folder contains different food images. The images are already split into Training and Testing folders. Each folder has three more subfolders named Bread, Soup, and Vegetables-Fruits. These folders have images of the respective classes.

## **Learning Outcomes:**

- Reading and handling image-based datasets
- Preparing the data to train a model
- Training and understanding of data using a convolutional neural network model
- Model evaluation

## Steps and Tasks:

- Import Libraries and Load Dataset
- Overview of data
- Data preparation

Choose Model, Train, and Evaluate
Conclusion
Previous

Next >

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