01:49
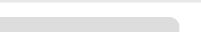
# Practice Project Overview: Fruit Classification Using Transfer Learning

**Estimated Reading Time: 15 minutes**

## Project overview

In this practice project, you will learn to classify images of fruits into different categories using transfer learning. The pre-trained VGG16 model will be used as the base, and custom layers will be added to fine-tune the model for our specific task. This approach allows us to leverage the knowledge learned from a large dataset (ImageNet) and apply it to a smaller, custom dataset with minimal computational resources and data.

### Aim

The aim is to classify images of different fruits using a machine learning model. You will train a convolutional neural network (CNN) to recognize various fruit categories using the power of transfer learning with a pre-trained model.

### Final Output

A trained model capable of classifying fruit images into specified categories with good accuracy.

## Learning objectives