

## L - 13 Understanding the arch. of Pre-trained Model

AIM: To understand the architecture of pre-trained model

### Objectives:

To learn the concept of transfer learning, and how it reduces training time.

To explore the layer wise architecture of pre-trained modules such as VGG15, AlexNet

To identify the role

To visualize, how these models extract features.

### Pseudocode

Import libraries

Load a pre-trained module

Model display it

Observe: input and output shape layers names, types and no. of parameters

Visualize the architecture using :

Load a sample input image and preprocess it for model

Pass image through the model and get predicted  
optionally visualize activation

### Observation

The pre-trained model contains million of parameters spread across convolutional & and dense layers.

Early layer extract edges and texture while deeper layer captures high level features such as object parts.

The use of pre-trained weights drastically reduces training time and improves model accuracy for new tasks.

### Result

Successfully implemented pre-trained model.

Og. ✓