

13. UNDERSTANDING THE
ARCHITECTURE OF PRE-TRAINED
MODEL

AIM:-

TO understand the architecture
of Pre-trained model

OBJECTIVE :-

- * Load a Pre-trained model
from a deep learning library
(eg. Pytorch or Tensor Flow)
- * Visualize and study its
layer structure and Parameters
- * Identify features extraction
and classification components
- * Understand how transfer
learning utilizes Pre-trained
weight,

Pseudocode :-

1. Start
2. Import a Pre-trained (nn)
model (e.g. VGG16) with weights =
imagenet
3. Display model summary
4. Visualize selected intermediate

layers and their features maps
8- Interpret how features transform
from edges - features - objects
END

Observation:-

- 1.) Early layers detected simple shapes like edges and color gradients
- 2.) Middle layers captured textures and repeated patterns
- 3.) Visualize selected intermediate layers and their features semantic representation
- 4.) Pre trained models reduce training time and improve accuracy significantly

Result:-

89. The internal working of a Pre-trained CNN model was successfully studied showing how deep networks learn hierarchical visual features.