CIFAR-10 Dataset

Steps -

(i) <u>Define/Build</u> a network model using predefined layers in Keras

(ii) Compile the model with <u>model.compile()</u>

(iii) Train the model with <u>model.fit()</u>

Dense, Conv2D, MaxPooling 2D,   Dropout, Flatten

<u>Feature Extraction</u>

Input image [32×32×3] ⇒

Conv1   Conv2   Conv3   Flatten

16×16   8×8   4×4

Channel: depth   32   64   64

1st window = Conv 1-1
2nd window = Conv 1-2
3rd window = MaxPooling 2D

<u>Classifier</u>

FC-1   FC-2

Dense   Dense   Activation function ⇒ Class → Softmax

512   10

10 classes (Classification)
⤷ o/p → class