

# School of Computer Science Engineering and Technology

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Course-B. Tech	Type- General Elective
Course Code- CSET-335	Course Name- Deep Learning
Year- 2024	Semester- Even
Date- 08/04/2024	Batch- 2023-2024

## CO-Mapping

Exp. No.	Name	CO1	CO2	CO3
07	Implementation of the pretrained model	✓	✓	--

## Objectives

CO1: To explain the fundamentals of deep learning, Convolution neural network.

CO2: To articulate different problem of classification, detection, segmentation, generation and understand existing solutions/ deep learning architectures.

CO3: To implement a solution for the given problem and improve it using various methods transfer learning, hyperparameter optimization.

## Assignment-7

**Goal: Implementation of the pre-trained model on a data set and customization of the pre-trained model to develop a new model and compare both the model in terms of accuracy, #FLOPs and inference time.**

### To Do:

Please create table to compare accuracy, #FLOPs and inference time of the implemented models. Also plot various graphs (such as bar charts, line charts, etc) to visualize the results obtained in the created table.

- **Data sets:** Cifar10, Cifar100, MNIST, Fashion MNIST
- **Pretrained Models:** AlexNet, VGG16/19, ResNet-50, GoogLeNet

**Help:** <https://keras.io/api/applications/>