



**CODING BOSS**  
**BANGALORE ,ERODE**

**KAMARAJ COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS) - VIRUDHUNAGAR.**

**Department : Information Technology**

**Value Added Course in**

**DEEP LEARNING USING PYTHON**



# CODING BOSS BANGALORE , ERODE

## **DEEP LEARNING USING PYTHON 40-HOUR SYLLABUS**

<b>DAY</b>	<b>PRODUCT DESCRIPTION</b>	<b>Practical / Real-Time Implementation</b>
DAY 1	Deep Learning & Python Basics + Single Perceptron	AND / OR Gate Classifier
DAY 2	Deep Neural Network (DNN) — MNIST Handwritten Digit Classifier	Handwritten Digit Recognition (MNIST)
DAY 3	Image Classification with CNN	CIFAR-10 Image Classifier
DAY 4	Transfer Learning	Cat vs Dog Classifier with MobileNetV2
DAY 5	Sequential Data with RNN / LSTM	Movie Review Sentiment Analysis (IMDB Dataset)
DAY 6	Model Deployment (Web-based)	Deploy Image Classifier using Streamlit

**Training Mode: Half-day Theory + Half-day Practical (Real-time Project Implementation)**

## Course Outcomes:

1. Students will be able to understand the basics of Deep Learning Using Python.
2. Students will understand the importance of Build and train deep neural networks using frameworks like TensorFlow or PyTorch.
3. Students will understand the architecture and intuition behind Convolutional Neural Networks (CNNs).
4. Students will be able to understand the concept of transfer learning and its advantages.
5. Students will gain hands-on experience in deploying machine learning models using Streamlit.