

Deep Learning Timeline

Date	Week	Topic
22 Apr 2025	Week 1	Perceptron
24 Apr 2025	Week 1	Weight Initialization Methods
26 Apr 2025	Week 1	Activation Functions
28 Apr 2025	Week 1	Loss Functions
30 Apr 2025	Week 2	Gradient Descent and its Variations
02 May 2025	Week 2	Global Minima and Local Minima
04 May 2025	Week 2	Backpropagation
06 May 2025	Week 2	Optimizers
08 May 2025	Week 2	Multi-Layer Perceptron
10 May 2025	Week 2	TensorFlow vs PyTorch
12 May 2025	Week 3	Regression Problems using TensorFlow/PyTorch
14 May 2025	Week 3	Classification Problems using TensorFlow/PyTorch
15 May 2025	Week 3	[Buffer Day: End of Phase 1]
17 May 2025	Week 3	What is Convolutional Neural Network (CNN)?
19 May 2025	Week 3	Different Layers in CNN
21 May 2025	Week 4	Data Augmentation
23 May 2025	Week 4	Example Problems on CNNs
25 May 2025	Week 4	Transfer Learning
27 May 2025	Week 4	CNN Variations (LeNet-5 to EfficientNet)
29 May 2025	Week 4	R-CNN Family

31 May 2025	Week 5	YOLO Family
02 Jun 2025	Week 5	SSD (Single Shot Detector)
03 Jun 2025	Week 5	[Buffer Day: End of Phase 2]
05 Jun 2025	Week 5	What is NLP?
07 Jun 2025	Week 5	Tokenization
09 Jun 2025	Week 5	Stemming
11 Jun 2025	Week 6	Lemmatization
13 Jun 2025	Week 6	Bag of Words
15 Jun 2025	Week 6	TF-IDF
17 Jun 2025	Week 6	Example Problems on NLP
18 Jun 2025	Week 6	[Buffer Day: End of Phase 3]
20 Jun 2025	Week 6	What is RNN?
22 Jun 2025	Week 7	Forward and Backward Propagation in RNN
24 Jun 2025	Week 7	Example Problems on RNN
26 Jun 2025	Week 7	LSTM
28 Jun 2025	Week 7	Word Embeddings
30 Jun 2025	Week 7	Bi-Directional RNN
02 Jul 2025	Week 7	Encoder and Decoder
04 Jul 2025	Week 8	AutoEncoder and its Variations
06 Jul 2025	Week 8	Attention is All You Need
08 Jul 2025	Week 8	Transformers
10 Jul 2025	Week 8	BERT
11 Jul 2025	Week 8	[Buffer Day: End of Phase 4]

13 Jul 2025	Week 8	Kaggle Task 1
15 Jul 2025	Week 9	Kaggle Task 2
17 Jul 2025	Week 9	Kaggle Task 3 (if needed or bonus/extra project)