

Monday - 3rd June, extra class 8-10pm

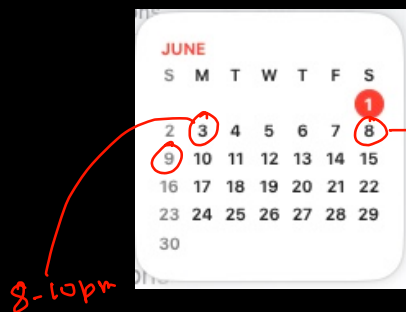
⇒ It will be mock interview class
so make sure to attend still.

Agenda

1. Deep learning Q + Concepts ⇒ Today
2. NLP + CV Concept + Question
+ HR final round

3. Mock Interviews ⇒ Monday to Next Sunday

Have your resume updated
+ send me on mail



○ mock interview

~15-20 min

8-9 June ⇒ normal time

Deep Learning - Concepts

1. Defⁿ

- ⇒ DL vs ML
- ⇒ Context & intuition

2. Neural Network

- ⇒ Neuron, weights, bias, activation fn
- ⇒ Layer - Input, hidden, output

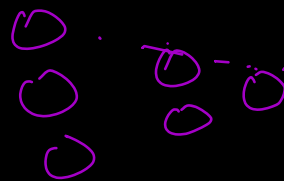
Activation function

- ⇒ Sigmoid, tanh, relu, leaky relu, softmax
- ⇒ Use case & characteristic of each fn.

3. Training Neural Network

Forward Propagation

How data flows through a NN



Error/Loss function

- ⇒ MSE, CEL (cross entropy loss)

Backward Propagation

- ⇒ Gradient Descent & Backpropagation
- ⇒ chain rule for computing gradient

Optimization Technique

⇒ SGD, Mini-batch GD

⇒ Adam, Adagrad, RMS prop

4. Regularization Technique

→ Overfitting & Underfitting

→ Regularization

⇒ L1 & L2

⇒ Dropout

⇒ Batch normalization.

5. Hyperparameter Tuning

⇒ α , batch size, #epochs

⇒ no. of layers, no. of neurons per layer

Grid search, Random search, Bayesian, initializers

6. Advance Neural Network

1. CNN (Convolution Neural Network)

Convolution layers, pooling

2. RNN (Recurrent Neural Network)

⇒ Basic Concept & structure Sequence Learning

⇒ LSTM / GRU

7. Model Evaluation & Validation

8. Advance DL Concepts

9. Deep Learning Library ⇒ Keras, tensorflow PyTorch