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Instructor Led Classroom / Live Online Training

2 +3 Month ₹ 92,000/-

Instructor led training is the most important phase of the course. DataMites provides

flexible learning channels

- Traditional Classroom Training
- Live Instructor Led Online Training
- Self Paced Learning / E-learning

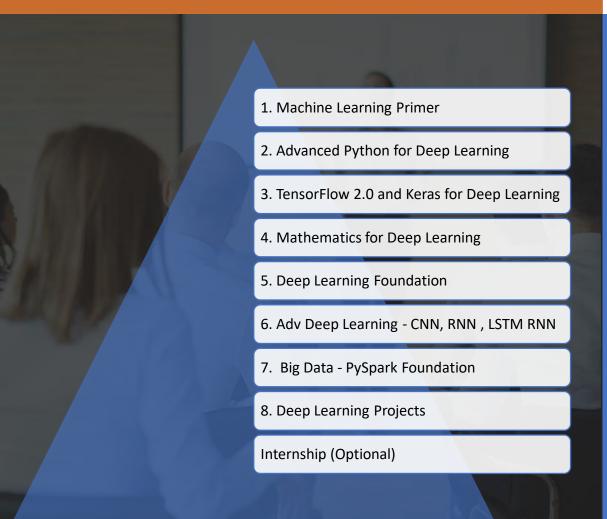
Regular Classroom Trainings are conducted is all major cities including Amsterdam (NL), Singapore (SG), Bangalore(IND), Chennai(IND), Hyderabad(IND) etc.,

Live Instructor Led Online Training is aligned with regional time-zones including USA, UK, Europe, India and Australia.

Deep Learning Expert

Deep Learning Track 8 Courses Bundle







Course Duration: 2 Months / 64 Hours



Course Fee : INR. 92,000/-



5+ Live Client Projects



24x7 Data Science Cloud lab access for 1 year





1. Machine Learning Primer

Deep Learning Track – Core Module

Course ID: DL3010



Module 1 Machine Learning Primer

Machine Learning core concepts, scalable algorithms, project

workflow.

Module 2 Objective Functions and Regularization

Understanding Objective Function of ML Algorithms

Module 3 Metrics, Evaluation Methods and Optimers

Popular Metrics in Detail: R2 Score, RMSE, Cross Entropy,

Precision, Recall, F1 Score, ROC-AUC, SGD, ADAM

Module 4 Artificial Neural Network in Detail

ANN in Details, Forward Pass and Back Propagation

Module 5 Machine Learning Vs Deep Learning

Core difference b/w ML and DL from implementation perspective.



Duration: 8 Hrs.
1-Day Classroom / 3-Day
Online Training



Course Fee : INR. 15,000/-



24x7 Data Science Cloud lab access for 1 year





2. Adv Python for Deep Learning

Deep Learning Track – Core Module

Course ID: DL3015



Module 1 Python Programing Primer
Installing Python, Programming basics, Native Data types

Module 2 Class, Inheritance and Magic Functions
Python Classes, Inheritance Concepts, Magic Functions

Module 3 Special Functions in Python
Overview, Array, selecting data, Slicing, Iterating, Array
Manipulations, Stacking, Splitting arrays, Key functions

Module 4 Decorators and Special Functions
Decorators implementation with class

Module 5 Context Manager 'with' in Python Context Manager application

Module 6 Exception Handling
Try and Catch block

Module 7 Python Package Management
Bundling and export python packages

Duration: 4 Hrs.

1-Day Classroom / 2-Day
Online Training

Course Fee : INR. 9,000/-

24x7 Data Science Cloud lab access for 1 year



3. TensorFlow 2.0 for Deep Learning

Deep Learning Track – Core Module

Course ID: DL3020



Module 1 TensorFlow 2.0 Basics

TensorFlow core concepts, Tensors, core APIs

Module 2 Concrete Functions, Datatypes, Control Statements

Polymorphic Functions, Concrete Functions, Datatypes, Control

Statements, NumPy, Pandas

Module 3 Autograph eager execution

tf.function autograph implementation. Sessions vs tf.function

Module 4 Keras (TensorFlow 2.0 Built-in API) Overview

Sequential Models, configuring layers, Loading data, train and test, complex models, call backs, save and restore Neural network

weights.

Module 5 Building Neural Networks in Keras

Building Neural networks from scratch in Keras,

Module 6 Implementing RNN, CNN in Keras

Building Recurrent Neural Networks for sequence data and

Convolution Neural Networks for Image Classification

(1)

Duration: 8 Hrs.

1-Day Classroom / 3-Day

Online Training



Course Fee : INR. 16,000/-



2+ Industry Projects



24x7 Data Science Cloud lab

access for 1 year





4. Mathematics for Machine Learning

Deep Learning Track – Core Module

Course ID: DL3025



Module 1 Linear Algebra

 $\ \ \, \text{Vectors, Matrices, Linear Transformation, Eigen Vectors, Matrix}$

Operations, Special Matrices

Module 2 Calculus - Derivatives

Calculus essentials, Derivates and Partial Derivates, Chain Rule,

Derivates of special functions

Module 3 Probability Essentials

Probability basics and notations, Conditional probability, Essential

Probability theorems for Machine Learning.

Module 4 Special functions

Relu, Sigmoid, SoftMax, Popular Loss Functions – Cross Entropy,

Quadratic Loss Functions.

Duration: 4 Hrs.

1-Day Classroom / 2-Day
Online Training



Course Fee: INR. 8,000/-



24x7 Data Science Cloud lab access for 1 year





5. Deep Learning Foundation

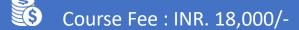
Deep Learning Track – Core Module

Course ID: DL3030



- Module 1 Deep Learning Networks Concepts
 Core concepts of Deep Learning Networks
- Module 2 Deep Dive into Activation Functions
 Relu, Sigmoid, Tanh, SoftMax, Linear
- Module 3 Building simple Deep Learning Network Simple DL network from starch.
- Module 4 Tuning Deep Learning Network
 Tuning Deep Learning Network Parameters for optimal performance, Stopping Criteria.
- Module 5 Visualizing Training using TensorBoard
 Visualizing Deep Learning Network using TensorBoard







24x7 Data Science Cloud lab access for 1 year





6. Advanced Deep Learning

Deep Learning Track – Core Module

Course ID: DL3035

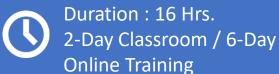


- Module 1 Deep Learning Architectures

 Popular Deep learning Architectures CNN, RNN, LSTM RNN, GRU

 RNN Introduction
- Module 2 Deep Dive into Convolution Neural Network
 Core Concepts of Convolution Neural Network, Feature Maps, Relu
 Activation, Max Pooling
- Module 3 CNN Application Image Classification
 Image Classification implementation with CNN TensorFlow 2.0
 (Keras)
- Module 4 Recurrent Neural Networks (RNN) Basics
 RNN Architecture, BPTT Back Prop through time, Mathematics of RNN
- Module 5 RNN, LTSM RNN and GRU RNN

 Vanishing Gradient and exploding Gradient problem, LTSM architecture, GRU Architecture.
- Module 6 LSTM RNN implementation in TensorFlow LSTM RNN project.





Course Fee : INR. 24,000/-



3+ Industry Projects



24x7 Data Science Cloud lab access for 1 year





7. Big Data - PySpark Foundation

Deep Learning Track – Core Module

Course ID: DL3040



Module 1 Basics of PySpark

PySpark API core functions, workflow

Module 2 Importing Big Data

PySpark functions for import data from various sources and other

big data frameworks.

Module 3 Machine Learning with PySpark

Implementing scalable ML models with PySpark.

Duration: 4 Hrs.

1-Day Classroom / 2-Day
Online Training



Course Fee: INR. 9,000/-



24x7 Data Science Cloud lab access for 1 year





8. Deep Learning Projects

Deep Learning Track – Core Module

Course ID: DL3045



PROJECT 1 Image Classification

Image Classification with CIFAR-10 Dataset

PROJECT 2 Human Face Detection

PROJECT 3 Traffic Sign Detection

PROJECT 4 Human Activity Detection

20BN-something-something Dataset V2

PROJECT 5 Image Caption Generation

*Candidates can choose any two of above Deep Learning Projects or come up with their own project ideas and complete with Mentors support



Duration: 2 Months
Mentored Project Execution



Course Fee : INR. 24,000/-



3+ Industry Projects



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