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PHASE - 2

Instructor Led Classroom / Live Online Training

2-Months ₹ 88,000/-

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

flexible learning channels for the Phase – 2

- 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.

Data Scientist Track SYLLABUS

Certified Data Scientist - 10 Courses Bundle







Course Duration:

2 Months / 64 Hours



Course Fee : INR. 88,000/-



5+ Live Client Projects



24x7 Data Science Cloud lab access for 1 year





1. Data Science Foundation

Data Scientist Track – Core Module

Course ID: DS1016



Module 1 Introduction to Data Science Evolution of Data Science

Module 2 Data Science vs Business Analytics vs Big Data Comparing various related domains with Data Science

Module 3 Classification of Business Analytics

Descriptive Analytics, Predictive Analytics, Discovery

Analytics and Prescriptive Analytics

Module 4 Data Science project workflow

6 States of Data Science Project workflow

Module 5 Various Roles in Data Science

Industry roles and responsibilities

Module 6 Application of Data Science in various industries



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



Course Fee : INR. 18,000/-



5+ Industry Projects



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2. Python for Data Science

Data Scientist Track – Core Module

Course ID: DS1005



- Module 1 Introduction to Data Science with Python Installing Python, Programming basics, Native Data types
- Module 2 Python Basics: Basic Syntax, Data Structures
 Data objects, Math, comparison operators, condition
 statements, loops, lists, tuples, sets, dicts, functions
- Module 3 Numpy Package
 Overview, Array, selecting data, Slicing, Iterating, Array
 Manipulations, Stacking, Splitting arrays, Key functions
- Module 4 Pandas Package
 Overview, Series and DataFrame, Data manipulation.
- Module 5 Python Advanced: Data Mugging with Pandas Histogram, grouping, aggregation, treating missing values, removing duplicates, Transforming data
- Module 6 Python Advanced: Visualization with Matplotlib
- Module 7 Exploratory Data Analysis:
 Data Cleaning, Data Wrangling
- Module 8 Exploratory Data Analysis: Case Study



Duration: 8 Hrs.

1-Day Classroom / 3-Day
Online Training



Course Fee : INR. 18,000/-



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24x7 Data Science Cloud lab access for 1 year





3. Statistics for Data Science

Data Scientist Track – Core Module

Course ID: DS1015



Module 1 Introduction to Statistics

Descriptive and Inferential Statistics. Definitions , terms, types of data

Module 2 Harnessing Data
Types of Sampling Data. Simple random sampling,
Stratified, Cluster sampling. Sampling error.

Module 3 Exploratory Analysis

Mean, Median and Mode, Data variability, Standard deviation, Z-score, Outliers

Module 4 Distributions
Normal Distribution, Central Limit Theorem, Histogram,
Normalization, Normality tests, skewness, Kurtosis.

Module 5 Hypothesis & computational Techniques
Hypothesis Testing, Null Hypothesis, P-value, Type I & II
errors, parametric testing: t- tests, anova test, nonparametric testing

Module 6 Correlation & Regression

Duration: 8 Hrs.

1-Day Classroom / 3-Day
Online Training

S Course Fee : INR. 16,000/-

5+ Industry Projects

24x7 Data Science Cloud lab access for 1 year



4. Machine Learning Associate

Data Scientist Track - Core Module

Course ID: DS1030



Module 1 Machine Learning Introduction
What is ML? ML vs AI. ML workflow, statistical modeling
of ML. Application of ML

Module 2 Machine Learning Algorithms
Popular ML algorithms, clustering, classification and regression, supervised vs unsupervised. Choice of ML

Module 3 Supervised Learning Simple and Multiple Linear regression, KNN, and more.

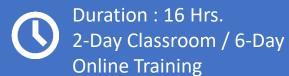
Module 4 Linear Regression and Logistic Regression
Theory of Linear regression, hands on with use cases

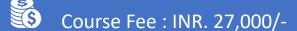
Module 5 K-Nearest Neighbour (KNN)

Module 6 Decision Tree

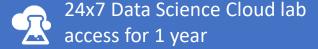
Module 7 Naïve Bayes Classifier

Module 8 Unsupervised Learning K-means Clustering.













5. Machine Learning Expert

Data Scientist Track - Core Module

Course ID: DS1031

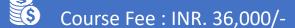


- Module 1 Advanced Machine Learning Concepts
 Tuning with Hyper parameters. Popular ML algorithms,
 clustering, classification and regression, supervised vs
 unsupervised. Choice of ML
- Module 2 Random Forest Ensemble Ensemble theory, random forest tuning
- Module 3 Support Vector Machine (SVM)
 Simple and Multiple Linear regression, KNN,
- Module 4 Natural Language Processing (NLP)

 Text Processing with Vectorization, Sentiment analysis with TextBlob, Twitter sentiment analysis.
- Module 5 Naïve Bayes Classifier
 Naïve Bayes for text classification, new articles tagging
- Module 6 Artificial Neural Network (ANN)

 Basic ANN network for regression and classification
- Module 7 Tensorflow overview and Deep Learning Intro
 Tensorflow work flow demo and intro to deep learning.







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6. Time Series Analysis

Data Scientist Track – Core Module

Course ID: DS1074



- What is Time Series?
- 2. Trend, Seasonality, cyclical and random
- 3. White Noise
- 4. Auto Regressive Model (AR)
- Moving Average Model (MA)
- ARMA Model
- 7. Stationarity of Time Series
- 8. ARIMA Model Prediction Concepts
- 9. ARIMA Model Hands on with Python
- 10. Case Study Assignment on ARIMA



Duration: 4 Hrs.
1-Day Classroom / 2-Day
Online Training



Course Fee: INR. 9,000/-



5+ Industry Projects



24x7 Data Science Cloud lab access for 1 year





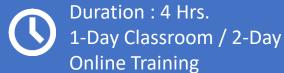
7. Model Deployment - API

Data Scientist Track – Core Module

Course ID: DS1080



- Module 1 Basics of Application Program Interface (API)
 API basics, loosing coupled architecture.
- Module 2 Installing Flask and Flask_cors
 Installation and configuring Flask and cross domain authentication.
- Module 3 End of End ML project with API deployment Complete project flow with API deployment and assessing through website.









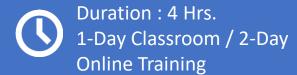




8. Deep Learning CNN FoundationData Scientist Track – Core Module Course ID: DS1051



- Module 1 Introduction to Deep learning
 What is Deep Learning?, Various Deep Learning models
 in practice and applications.
- Module 2 Introduction to Image Basics
 Image resolution, pixels, image manipulations with filters.
- Module 3 Convolution Neural Network CNN Intro
 CNN essentials, CNN Architecture, work flow of image
 classification with CNN
- Module 4 Case Study: Keras—Tensorflow image classification CNN hands on application for classification images of Cats and Dogs







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9. Tableau Foundation

Data Scientist Track – Core Module

Course ID: DS1063



Module 1 Tableau Introduction

Tableau Interface, Dimensions and measures, filter shelf,

Distributing and publishing

Module 2 Connecting to Data Source

Connecting to sources, excel, data bases, api, pdf.

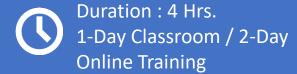
Extracting and interpreting data.

Module 3 Visual Analytics

Charts and plots with Super Store data

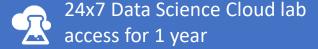
Module 4 Forecasting

Forecasting time series data. Sales.













10. SQL for Data Science

Data Scientist Track – Core Module

Course ID: DS1070



Module 1 Install SQL packages and Connecting to DB

SQLalchemy , PyMySQL

Module 2 RDBMS (Relation Database Management) Basics

Basics of SQL DB, Primary key, Foreign Key

Module 3 SELECT SQL command, WHERE Condition

Retrieving data with SELECT SQL command and WHERE

Condition to Pandas Data Frame.

Module 4 SQL JOINs

Left Join, Right Joins, multiple joins

Duration: 4 Hrs.

1-Day Classroom / 2-Day
Online Training

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Course Fee: INR. 9,000/-



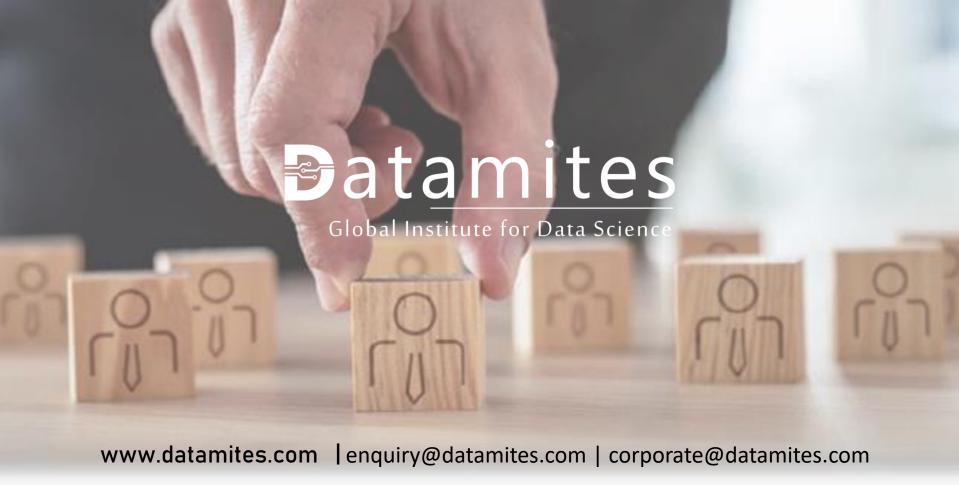
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