PHASE - 2

Instructor Led Classroom / Live Online Training

2-Months
₹ 88,000/-

Certified Data Science
Course Syllabus

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IABAC International Association of
Business Analytics Certification

Datamites
Global Institute for Data Science

DataMites™ is Registered Education Partner of IABAC

Data Scientist Track SYLLABUS
Certified Data Scientist - 9 Courses Bundle

Datamites
Global Institute for Data Science

- Python for Data Science
- Statistics for Data Science
- Machine Learning Associate
- Machine Learning Expert
- Time Series Foundation
- Model Deployment (Flask-API)
- Deep Learning - CNN Foundation
- Tableau Foundation
- Data Science Business Concepts

Course Duration :
2 Months / 64 Hours

Course Fee : INR. 88,000/-

5+ Live Client Projects

24x7 Data Science Cloud lab
access for 1 year

Placement Assistance
Included

IABAC
INTERNATIONAL ASSOCIATION OF
BUSINESS ANALYTICS CERTIFICATION

Python for Data Science
Data Scientist Track – Core Module
Course ID: DS1016

Datamites
Global Institute for Data Science

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, Manuplications, stacking, splitting arrays, functions

Module 4   **Pandas Package**
Overview, Series and DataFrame, manuplication.

Module 5   **Python Advanced: Data Mugging with Pandas**
Histogramming, 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/-

5+ Industry Projects

24x7 Data Science Cloud lab access for 1 year

Placement Assistance Included

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INTERNATIONAL ASSOCIATION OF BUSINESS ANALYTICS CERTIFICATION

Statistics for Data Science
Data Scientist Track – Core Module
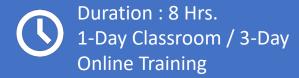**Course ID: DS1015**

Datamites
Global Institute for Data Science

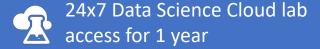**Module 1**   **Introduction to Statistics**
Descriptive and Inferential Statistics. Definitions , terms, types of data

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, non-parametric testing

Module 6   **Correlation & Regression**

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

- Course Fee : INR. 16,000/-

- 5+ Industry Projects

- 24x7 Data Science Cloud lab access for 1 year

- Placement Assistance Included

IABAC
INTERNATIONAL ASSOCIATION OF BUSINESS ANALYTICS CERTIFICATION

Machine Learning Associate
Data Scientist Track – Core Module
Course ID: DS1030

Datamites
Global Institute for Data Science

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.

Duration : 16 Hrs.
2-Day Classroom / 6-Day Online Training

Course Fee : INR. 27,000/-

5+ Industry Projects

24x7 Data Science Cloud lab access for 1 year

Placement Assistance Included

IABAC
INTERNATIONAL ASSOCIATION OF
BUSINESS ANALYTICS CERTIFICATION

Machine Learning Expert
Data Scientist Track – Core Module
Course ID: DS1031

Datamites
Global Institute for Data Science

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.

Duration : 16 Hrs.
2-Day Classroom / 6-Day Online Training

Course Fee : INR. 36,000/-

5+ Industry Projects

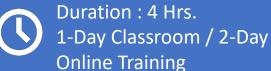24x7 Data Science Cloud lab access for 1 year

Placement Assistance Included

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Time Series Analysis
Data Scientist Track – Core Module
Course ID: DS1074

Datamites
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1. What is Time Series?

2. Trend, Seasonality, cyclical and random

3. White Noise

4. Auto Regressive Model (AR)

5. Moving Average Model (MA)

6. 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

Placement Assistance Included

IABAC
INTERNATIONAL ASSOCIATION OF BUSINESS ANALYTICS CERTIFICATION

Deep Learning - CNN Foundation
Course ID: DS1082

Datamites
Global Institute for Data Science

Module 1   Image Processing fundamentals
Image Basics, Converting image to Numpy Array

Module 2   Introduction to CNN
Convolution – feature maps, max pooling, ANN

Module 3   Image classification (Cats and Dogs)
Keras with tensorflow, hands on image classification CNN

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

Placement Assistance Included

IABAC
INTERNATIONAL ASSOCIATION OF
BUSINESS ANALYTICS CERTIFICATION

Model Deployment - API
Data Scientist Track – Core Module
Course ID: DS1051

Datamites
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Module 1   REST API
API concepts, web servers, URL parameters

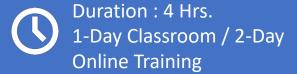**Module 2**   FLASK Web framework
Installing flask, configuration.

Module 3   API in Flask
API coding in Flask

Module 4   End to End Deployment
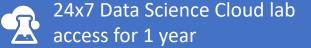Exporting trained model, creating end to end API.

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

Placement Assistance Included

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INTERNATIONAL ASSOCIATION OF BUSINESS ANALYTICS CERTIFICATION

Tableau Foundation
Data Scientist Track – Core Module
Course ID: DS1063

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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.

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

Placement Assistance Included

IABAC
INTERNATIONAL ASSOCIATION OF
BUSINESS ANALYTICS CERTIFICATION

Data Science Business
Data Scientist Track – Core Module
Course ID: DS1039

Module 1   **Understanding Business Case**
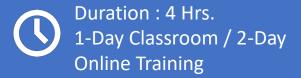Components of Business Case. ROI calculation techniques. Scoping.

Module 2   **Writing Data Science Business Case**
Defining Business opportunity. Translating to Data Science problem. Creating project plan.

Module 3   **Benefits Analysis**
Demonstrating break even and benefits analysis with Data Science Solutions.

Module 4   **Starting project, Setting up Team and closing.**
Initiating Project, Setting up the Team, delivering and closing project.

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

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