Certification Program

in

Data Analytics

by

GapReduce

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Certification Program in Data Analytics

This is the program where you will be trained with fundamentals of data analytics, Machine learning, Data visualization and Python. The entire content provides you with the comprehensive theory and practical knowledge driven by highly qualified professionals from the Data Science spectrum.

With the help of our carefully curated training programs, you will be professionally groomed and have your skill sets enhanced. This will be done through hands-on projects, practical assignments, case studies, communication skills, resume writing sessions, mock tests, assessments and interviews.

Features of program

- Live 2 Hours/day training sessions by GapReduce certified Trainer
- Case studies and project on data analytics
- Module wise assessments
- Practical Assignments
- Resume writing sessions
- One to One Mock interviews
- MNC specific Interview Question bank
- Job Application support
- Placement support from GapReduce Placement Team

Important Dates

Last date to Apply	September 2, 2022
Program start date	September 5, 2022
Completion of program	December 13, 2022

Program Modes

Certification program in Data Analytics is offered in two modes mentioned below:

Interview Guaranteed

In GapReduce Interview Guaranteed programs, we offer guarantee for interview in respective domains covered by program. During this time, even after completion of course, learner will be given complete support to update resume, prepare profiles like linkedIn for job opportunities. Learner will be given regular updated about job opportunities and complete assistance in applying for the same.

Job Guaranteed

In GapReduce Job Guaranteed programs, we offer guarantee till the placement of learner. Learner will start receiving job updates after 70 % completion of course and this support will be given for a period of one year after completion of course. During this time, learners will be given regular updates, interview preparation question banks, mock interview and resume update sessions.

*Interview Preparation

On the basis of type of mode selected for the program, separate interview preparation modules will also be mapped to the program.

Curriculum (Duration: 124 Hours)

Module 1: Fundamentals of Statistics and Probability (18 Hours)

- Introduction to statistics
- Population and Sample
- Fundamentals of descriptive statistics
- Measure of central tendency
- Estimators and Estimates
- Confidence intervals
- Hypothesis testing
- Fundamentals of probability
- Probability Distributions

Module 2: Statistics for Decision Making (12 Hours)

- Analysis of Variance
- Basic of ANOVA
- One way ANOVA
- Two way ANOVA
- Fundamentals of regression analysis

Module 3: Introduction to Data Analytics (8 Hours)

- Introduction to data analytics
- What is Data?
- Types of data
- Analysis Vs Analytics
- Dealing with different types of data
- Data analytics in various sectors
- Role of data analyst

Module 4: Fundamentals of Python Programming (30 Hours)

- Introduction to Python
- Features of python programming
- Installation and Environmental setup
- Identifiers in python
- Variables and standard data types
- Data Type casting
- Operators in python
- Operator preceedance and associativity
- Decision making constructs
- Iterative statements
- Functions in python
- Python OOPS concepts
- Exception handling

Module 5: Introduction to Machine Learning (10 Hours)

- Introduction to Machine learning
- Types of Machine learning
- Handling missing values
- Data pre-processing techniques
- Outliers in data
- Overfitting
- Machine learning libraries in Python

Module 6: Hands-on Classification algorithms using python (10 Hours)

- Introduction to Classification
- Naive Bayess Algorithm
- Decision Tree Algorithm
- KNN for Classification
- Support Vector Machine

Module 7: Hands-on Clustering and Regression algorithms using python (12 Hours)

- Introduction to clustering
- KMeans Algorithm
- KNN clustering Algorithm
- Hierarchical clustering
- Introducton to linear regression
- Simple linear regression

Module 8: Data Visualisation (8 Hours)

- Introduction to data visualisation
- Various types of plots using python
- Bar charts and line charts
- Scatter plots (2D and 3D)
- Box Plots
- Heatmaps

Module 9: Big Data Analytics (16 Hours)

- Introduction to big data analytics
- Introduction to Apache Hadoop
- Apache Hadoop architecture
- Configuring Apache Hadoop cluster
- Hadoop distributed filesystem (HDFS)
- Hands-on HDFS commands
- MapReduce Programming concepts
- Hands-on MapReduce programming