



According to one study, the world used over 2.8 Zettabytes of data and only .5 percent of the 2.8 Zettabytes of data is analyzed in any way. Such a huge amount of data needs to have tools, techniques to process and analyze into meaningful study that helps in decision-making, research, quality improvement etc.

Every organization, today, are seriously considering big data in their business strategy not just to make critical business decisions but also to improve all aspects of business.

### **Top reasons to become Data Scientist**

1. Data scientist" has already been declared this year's hottest job
2. Specifically, data scientists earn base salaries up to 39 percent higher than other predictive analytics professionals do, depending on job category
3. Data science is starting to be embraced in a wider variety of industries than ever before, including finance, healthcare and transportation. That means broader opportunities for data scientists

Keeping in view the immense job and business opportunities available in the field of Big Data, NIESBUD is conducting 4 (Four) days Certification Programme on **“Big Data Hadoop Developer” on 21,22,28,29 Jan’17 (weekends)** at its Noida campus from 10:00am to 5:30 pm. The program will help you to learn A to Z of Big Data.

### **Programme Objectives**

1. The learning will take deep dive into the key concepts and techniques of Big Data. Hands-on approach ensures all the concepts are clearly understood and applied during the session.
2. After the completion of the course, the students will have knowledge of Hadoop ecosystem, architecture and other tools.

This course is extremely relevant for Developers, Researchers, Engineers, and Faculty from industry, research labs, universities and colleges, Data analyst who need hands-on experience on big data. This course will also help beginners with little computer knowledge to make career in big data.

### **Course Methodology**

Instructor led training with practical hands-on exercises, quizzes and questionnaires for better learning. Examination at the end of the training will be conducted to evaluate individual performance of all students.

## Course Content

- **Introduction to Big Data & Hadoop** • Data Explosion • What is Big Data? • Types of Data • Need for Big Data • Characteristics of Big Data • Big Data - Capabilities • Big Data—Use Cases • Traditional Data Warehouse – Definition • Traditional Data Warehouse – Limitations • Big Data Ware House • Introduction to Hadoop • Hadoop Key Characteristics • History and Milestones of Hadoop • Hadoop Ecosystem
- **Hadoop Architecture** : Hadoop Key Terms • Hadoop Cluster in commodity hardware • Hadoop Configuration • Hadoop Core Components & Core Services • Hadoop Server Roles
- **Planning Hadoop cluster, installation & configuration:** Oracle VirtualBox — Introduction • Installing Oracle VirtualBox • Setting up the Virtual Environment • Open a VM • Hadoop Installation • Single Node Configuration • Multi-node Cluster setup
- **HDFS:** HDFS Features • Difference – Regular File System & HDFS • HDFS Architecture • HDFS Operation Principle • Namenode Operation • Data Blocks & Replication Architecture • Datanode Failure & Recovery • Writing File to HDFS • Reading File from HDFS
- **Mapreduce:** Introduction to MapReduce & Components • JobTracker TaskTracker • MapReduce Framework • Mapper & Reducer • Combiner & Partitioner • Shuffle & Sort
- **Overview of Mapreduce & Yarn:** Setting up your MapReduce Environment • Building a MapReduce Application • Counters • Joins • Hadoop Data Types • Serialization & Writable Interface • Input Formats in MapReduce • Output Formats in MapReduce • YARN
- **PIG:** Introduction to PIG • Pig Installation • Data Loading • Data Transformation • PIG – Syntax & Hands On
- **Hive:** What is HIVE • Characteristics of Hive • System Architecture and Components of Hive • Hive Data Models • Hive Query Language • Hive Installing, running, and programming • Hive – Syntax & Hands On
- **Hbase:** HBase introduction • Characteristics of HBase • HBase Architecture • HBase Storage Model • HBase Data Model • Installation of HBase HBase – Syntax & Hands On
- **Sqoop:** Introduction to Sqoop • Importing & Exporting Data • Sqoop – Syntax & Hands On
- **Big Data Analytics:** Introduction to R Programming and other tools

## **Fee Details**

**Rs 14,000/- (Rs. Fourteen Thousand Only per participant).**

This includes course fee, study material, lunch, tea/coffee and certificate.

### **Mode of Payment:**

*1) Cash payment at NIESBUD*

*2) DD drawn in favor of NIESBUD payable at Noida*

*3) Online Bank Transfer. The details are:*

Name of bank: Oriental bank of Commerce

Account holder name: The National Institute for Entrepreneurship and Small Business Development

Address: B-31, Sector 62, Noida

Account No: 09312011002654 , Account Type : Savings

IFSC Code: ORBC0100931 MICR Code: 110022092

## **CONTACT PERSONS:**

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**THE NATIONAL INSTITUTE FOR ENTREPRENEURSHIP AND  
SMALL BUSINESS DEVELOPMENT (NIESBUD)**

**A-23, SECTOR 62, Institutional Area, NOIDA- 201301 (U.P.)**

**Application/ Registration form- Big Data Hadoop Developer**

**Director**

**NIESBUD, A 23, Institutional Area,**

**Sector 62, NOIDA-201301(UP)**



Photo

**( PI. FILL THE FORM IN CAPITAL LETTERS )**

1. Name Mr / Mrs/ Miss : ..... Date of Birth
2. Father / Husband Name : .....
3. Mother Name : .....
4. Educational Qualification : .....
5. Address : .....
6. Gender : Female/Male..... Nationality .....
7. Cast : General/ SC/ST/OBC/Minority/ Other
8. Telephone/Mobile No : .....
9. Identity Card : Voter ID Card/Ration Card/ Passport/DL/ Pan Card/  
Bank No / BPL Card/ UID/Similar Document  
**One of the above mentioned documents is  
mandatory.**
10. E-mail ( PI. write in capital letter only ) .....
11. Programme Code : **Big Data** Batch : Weekend
12. Programm Duration : 4days Place : Noida Campus
13. Fee Details : Cash / D.D/ Bank Transfer : Rs. 14,000/-
14. Trainee's Objective : Self Employment / Wage Employment

**Prog. Coordinator signature & Date**

**Applicant Signature & Date**