

Big Data Analytics

(The Best Career Move)

With more and more companies understanding the importance of Big Data as a useful source for gaining insights and making informed decision- the demand for Data Analytic specialists who can define the Big Data, uncover hidden pattern, spot opportunities and create insights for the betterment of a business, are surely benefiting from [most trending job opportunities in 2017](#).

If you have given a second thought about Big Data Analytics as a career move, then this blog will highlight insights about the opportunities and advantages that you may not have known.

Having a natural desire to find solutions, irrelevant to your present profession, will make it easy and interesting for you to learn languages that are in demand and specialize with time.

There are many certification courses and material available online for new, as well as, knowledgeable candidates who want to broaden their skills in Big Data. From offering basic knowledge of Java or OOPS programming, get a chance to learn about working with Unix /Linux platforms and tools like [Apache Hadoop](#), [R](#).

Part of the Most Demanded Profession

Big Data Analytics is considered to be the [most trending expertise](#) by 75% I.T providers and over 68% of them are struggling to find employees with relevant expertise.

Considering the above facts and figures, you can imagine the scope of professional opportunities in 2018 and the years to come.

Considering [Prescriptive Analytics](#), [Predictive Analytics](#), and [descriptive statistics](#) as the major 3 types of Data Analytics job opportunities, focusing on a niche can help you master and get a competitive advantage in specific areas.

Multi-industry/Domain Opportunities

With popular brands Software AG, Oracle Corporation, IBM, Microsoft, SAP, EMC, HP and Dell investing more than \$15 billion in software firms specializing in Data Management Analytics automatically has increased the demand for Information Management specialists across multiple industry and domain-types.

Competitive Salary

With three out of top five technical jobs of 2017 [being involved with analytics](#) (Data Architects a median salary of \$122,000, Data Managers a median salary of \$109,000 and Data Engineers with a median salary of \$105,000), the monetary benefits of shifting to a Data Analytics career can prove to be more than any other IT professional.

Explore Popular Analytics Tools and Techniques

If you have a flair for math and statistics, Big Data Analytics career move will allow you enhance your skills in applied statistics, linear algebra, real analysis, numerical analysis, and graph theory.

A degree in computer science will be an added advantage and allow you to enhance your skills for Python, Hive, and SQL coding, as these skills will help to stay ahead of the Big Data Analytics game.

Enhance Retailer/Customer Relationship

Especially for B2B companies, Big Data Analytics is helping them better insights about their customer's and eliminate the risks of taking dark guesswork. Being a part of the evidence-based segmentation and reporting structure, you'll be able to build more-fluid and user-driven customer experience with the firm.

Have an Authority

By performing Big Data Analytics you gain insights about what has worked and what didn't, this way you automatically be the key person of the organization who will take actions as your analysis and solutions provided.

Being a part of the key performance analysis for an organization, get a chance to influence top-level management, who in turn, will always depend on you for making crucial business decisions in future.

Key Decision-Making Power

Big Data Analytics is an added value to any organization that allows them to make informed decisions and providing the biggest edge over competitors. Therefore, adopting Big Data career move increase the chances of becoming a key decision maker for an organization.

Hang of Multiple Programming Languages

Big Data Analytics is not limited to a single language or a framework, instead, combining advanced statistical and quantitative skills with programming ability there are many other potential languages that you can specialize in.

Work with Recognized Brand Names

Apart from having an opportunity to work with start-ups and small companies- IBM, SAP, Microsoft, HP, and Oracle are also posting job opportunities for exploring Big Data research. Of course, big companies will require data specialist with prior experience, but they can always be a growth opportunity for you in the future.

Become Specific Domain Campaign Expert

Big Data Analytics works upon multiple technical languages for targeting multiple campaigns – For example, [market segmentation](#). Mastering in a particular language, you'll grab a chance to be accountable for the complete delivery of domains that you will specialize in.

Being an expert, you automatically offer a reliable solution to companies as they will no longer have to depend in purchasing an expensive database from external sources.

Improve your Microsoft Excel Skills

Whether you have a prior experience or not, Data Analytics career role will include the requirement of using Excel in order to clean, organize, manipulate and visualize data. Excel being one of the indispensable tools for managing data, having some knowledge can give you an advantage for cracking a data analytic job faster.

New Skill Opportunities

With data assurance, finance, sales, marketing, and Business Intelligence (BI) being the most popular work areas for a data analyst specialists, you get an opportunity to use your skills across multiple industries.

Acquiring Data Mining, Data Infrastructure, Data Visualization, and decisions analysis skills you can expand your service to different areas and enhance your Data Analytics knowledge with time.

Growth Opportunity due to Digitization

With the advancement of technology, many companies understand the importance of Big Data research and most of them have already adopted comprehensive digital operations to enhance consumer satisfaction. And, with Big Data Analytics allowing companies to fuel their intelligence endeavors, there is a wide scope for beginners and professionals with the relevant skill set.

Become a Freelance Consultant

Big Data analysts are also known as Big Data consultants who offer insights about key areas that include marketing, and sales. Becoming a consultant you will be responsible for the process from strategizing, analyses, to visualization of various data coming from multiple sources.

Be a Part of Data Podcasts

[Podcast](#) is a great place to enhance and explore new Data Analytics job opportunities as a start. There are multiple podcasts available online, with [iTunes](#) being one of the popular ones that accommodated specialists from IBM Big Data and Analytics Hub.

Being a part of Data Analytics community, you get a chance to learn and grow together. Additionally, you get a chance to increase visibility among brands and business owners who regularly visit such podcast platforms to understand the potential and growth opportunities with Data Analytics.

Get a Chance to be a Data Scientist

Last, but not the least gets a chance to be an all-in-one solution provider that combines the job of a data analyst and data engineers. For example, a mid-size level company will distribute the work of cleaning, structuring and performing Big Data projects.

However, many companies depend on one individual (Data Scientist) who performs all tasks.

Over to You

No matter how advanced Big Data Analytics job gets, the need of human insights will also be in demand. And, with more and more companies looking for experts to understand data and offer effective solutions as per the business point of view, will always improve the demand of Data Analytics professionals in the years to come.

Common career paths for Data Analyst:

Data Analyst Operations

Team Leader

Operations Manager

Assistant Manager,

Customer Service Assistant

Sr. Operations Manager

Project Manager,

General / Operations Manager

Vice President (VP),

Business Analyst

Analytics Manager

Lead Business Analyst

Business Analyst,

IT Senior

Certificate Programme In System Interation:

Big Data Course Syllabus

01^{MODULE}

OS Concepts and Shell Scripting on Linux

Brief Description:

This module familiarizes the participants with the working commands of Linux and its file system.

Recommended Learning Duration:

10 Hours

02^{MODULE}

Logic Building and Algorithms.

Brief Description:

This module helps the participants to develop Logic Building and Algorithm concepts.

Recommended Learning Duration:

12 Hours

03^{MODULE}

Basic Java Programming.

Brief Description:

This module helps the participants to learn the concepts of programming using Java.

Recommended Learning Duration:

40 Hours

04^{MODULE}

Database Fundamentals and SQL Databases.

Brief Description:

This module covers the concepts of Databases and SQL.

Recommended Learning Duration:

20 Hours

05^{MODULE}

Object Oriented Programming with Java.

Brief Description:

This module covers the concepts of OO analysis and design using Java.

Recommended Learning Duration:

40 Hours

06^{MODULE}

Fundamentals of Web Technologies.

Brief Description:

This module covers the fundamental concepts of Web Designing using HTML, Javascript, etc.

Recommended Learning Duration:

16 Hours

07^{MODULE}

Scripting with Python.

Brief Description:

This module covers the concepts of Python scripting language and its usage in developing Big Data Algorithms.

Recommended Learning Duration:

40 Hours

08^{MODULE}

Software Engineering , Quality & Coding Standards.

Brief Description:

This module covers the concepts of engineering a software.

Recommended Learning Duration:

32 Hours

09^{MODULE}

Advanced Algorithms.

Brief Description:

This module covers the concepts of designing advanced algorithms to implement mapreduce programs.

Recommended Learning Duration:

10 Hours

10^{MODULE}

No SQL Databases.

Brief Description:

This module covers the concepts of NoSQL databases and their implementation.

Recommended Learning Duration:

40 Hours

11^{MODULE}

Introduction to Big Data and Working with Hadoop.

Brief Description:

This module covers the concepts of Big Data Hadoop and its problems.

Recommended Learning Duration:

30 Hours

12^{MODULE}

Application Development using MapReduce and Java.

Brief Description:

This module covers the programming concept of mapreduce using Java.

Recommended Learning Duration:

20 Hours

13^{MODULE}

Data Transfer and Data Handling using Apache Sqoop and Flume.

Brief Description:

This module covers the concepts of Data transfer using Sqoop and handling streaming data by using Flume.

Recommended Learning Duration:

20 Hours

14^{MODULE}

Workflow Management using Oozie.

Brief Description:

This module covers the concepts of handling workflows using Oozie.

Recommended Learning Duration:

10 Hours

15^{MODULE}

Big Data Platforms - Hortonworks and GreenPlum.

Brief Description:

This module deals with the Big data frameworks.

Recommended Learning Duration:

10 Hours

16^{MODULE}

Cloudera's Hadoop Distribution and Management Tools

Brief Description:

This module deals with Cloudera framework of Hadoop.

Recommended Learning Duration:

10 Hours

17^{MODULE}

Project.

Brief Description:

This module is used to guide and hand hold the candidates for developing a project in Big Data Development.

Recommended Learning Duration:

10 Hours

18^{MODULE}

Soft Skills

Brief Description:

This module is to groom the candidates and make them market ready.

Recommended Learning Duration:

20 Hours

Final Exam- Online, Proctored

This is the final evaluation module of learning.

Programming In Big Data – HADOOP Course Syllabus

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