5 Reasons to Learn Hadoop

It is possible today for organizations to store all the data generated by their business at an affordable price-all thanks to Hadoop, the Sirius star in the cluster of million stars. With Hadoop, even the impossible things look so trivial. With the use of Hadoop, increased number of organizations are able to effectively use their marketing dollars, find out about customer buying and click patterns, provide personalized recommendations, personalize ad targeting, etc. So the big question is how is learning Hadoop helpful to you as an individual? In this blog we have come up with the 5 best reasons to learn Hadoop.

"I think there's still some doubt in people's minds about whether Hadoop is a flash in the pan … and I think they're missing the point. I think that's going to be proven to people in the next year."- says Doug Cutting

"When it comes to analytics, there's not a large talent pool. The actual tools are new. It's a challenge to find 1,000 Hadoop experts" – says John Roese, CTO of EMC

Why learn Hadoop?

The requirement for processing zettabytes of unstructured big data is generating demand for professionals with Hadoop skills to work with unstructured data. It could be quite complex and challenging to learn Hadoop. However, with professional Hadoop training and by completing Hadoop certification even novices can easily learn Hadoop to meet the competitive advantage. Thus, professionals must learn Hadoop to ramp up on the big data technology as Hadoop is soon going to be identified as a must have skill by all big data companies.

According to Technology Research Organization, Wikibon-"Hadoop and NoSQL software and services are the fastest growth technologies in the data market."
A researchreport by Markets and Markets Research anticipates that Hadoop and Big Data Analytics market will reach close to $13.9 billion from 2012 to 2017.
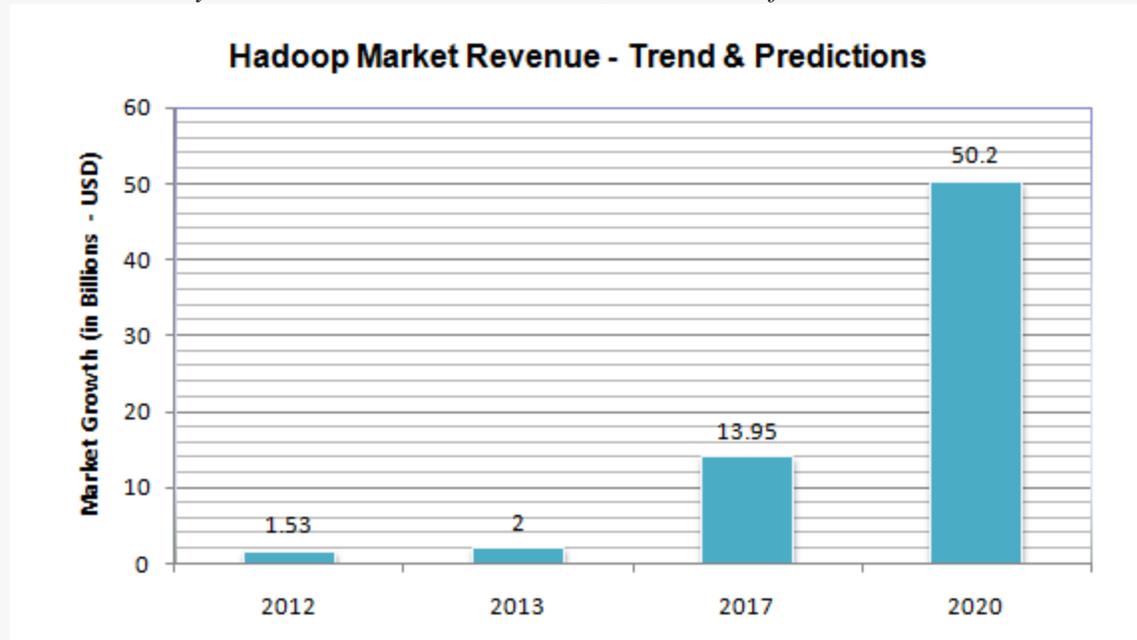
Predictions Based on Big Data Analytics Market Report

Image Credit :marketsandmarkets.com

Gartner predicts Hadoop framework to be the most advanced big data analytics products by 2015.This prediction is turning true as Hadoop is the technology being leveraged extensively to harness Big Data in 2015.

Forrester predicts -"The remaining minority of dazed and confused CIOs will make Hadoop a priority for 2015. Application development and delivery professionals should be ready and waiting with a compelling use case to get started."

"Hadoop is an emerging skill. Companies need to manage large-scale data operations, and the whole idea of Hadoop is that you can do it inexpensively. That works really well with what we're seeing in terms of the movement to the cloud."- says Alice Hill, Managing Director of Dice.com

If you work in a data-less environment then probably it is time for you to move out of your cubicle and enter the big data driven digitized world.

Gartner Analyst, Peter Sondergaard said-" By 2015, 4.4 million IT jobs globally will be created to support big data, generating 1.9 million IT jobs in the United States." With big data market creating increased number of opportunities in 2015, professionals must update their skill set by learning Hadoop and other big data technologies. The Sirius star in the big data technology cluster of million stars is Hadoop. Learn Hadoop and obtain a Hadoop certification in 2015 as it dominates the IT market in novel technologies to upgrade for.

Apache Hadoop is an open source framework for analysing big data that makes the impossible look trivial. Some big data success stories with Hadoop are –

- New York Times is using Hadoop framework to convert close to 4 million entities to PDF formatting less than 36 hours.

- Walmart is using Hadoop framework to change the way e-commerce operates through its Social Genome product by providing custom recommendations to its customers or friends of customers who mentions something online on Facebook, Twitter or any other social media platform. For instance, if Walmart labs shows a woman tweeting frequently about movies. When she tweets "I love salt". The social genome product of Walmart can analyse that the women is talking about the famous Hollywood movie Salt and not talking about the condiment Salt.

For the complete list of big data companies and their salaries- CLICK HERE

5 Reasons to Learn Hadoop

With 2015 bringing in a larger list of big data use cases for analysing information, here are 5 reasons to learn Hadoop so that professionals can exploit these lucrative career opportunities in the big data market.

1) Hadoop brings in better career opportunities in 2015

"Most of the companies are looking for experienced IT professionals, with prior experience in business intelligence, ETL/DWH, sound knowledge on Hadoop ecosystems like Pig/Hive with NoSQL databases like HBase, MongoDB, Cassandra, along with HDFS and MapReduce"- says Parameswara R Ganta , CTO and head of BigDataPractice, VisualPath.

Career opportunities for Hadoop professionals are emerging across various business industries, from financial firms to retailers, healthcare, agriculture, sports, energy, utilite and media.

Having completed certified Hadoop training, a candidate is eligible to apply for a host of job positions such as Hadoop Developer, Big data architect, Data Analysts, Hadoop Administrator, and Data Scientist.

JOB OPPORTUNITIES:

Hadoop Architect:
An organiser, administrator, manager- A Hadoop architect is all of these, planning and executing the organization's big data operations.

Hadoop Developer:
An avid programmer, a Hadoop developer possesses knowledge about core Java, databases and scripting languages. Good interpersonal skills are a must for a developer to effectively communicate with the different levels and customers of the firm's big data operations.

Data Scientists:
Data Scientists come with a deep-seated knowledge of business as well as data analysis. Writing code, designing analytics models, working with databases, design and implement machine learning algorithms- They do it all. They are not anything like traditional data analysts because they analyze data from sources more than one.

Hadoop Administrator:
Hadoop administrator takes care of setting up the big data infrastructure and manages shared cluster resources between developers. Administrators also work on trouble-shooting infrastructure issues and resolving them.

Image Credit :venturesity.com

Apache Hadoop is already a strong pillar of the popular IT big data systems like-Facebook, Apple, Google, Yahoo, Amazon and eBay. Hadoop being an open source framework makes it easy and economical for organizations to set up and manage clusters when compared to licensed alternatives.

Hadoop is the much-loved distributed computing technology with smaller enterprises looking to leverage analytics to draw valuable big data insights. This implies that several employers will consider knowledge and expertise of Hadoop as an automatic entry ticket to enter into the big data payroll.

On 19 th May, 2015, a keyword search for the term "Hadoop jobs" on popular IT careers job portal Dice.com showed 4932 positions for Hadoop skills. With number of Hadoop jobs increasing year on year, professionals interested in diving into this exponentially growing lucrative career opportunity must enrol for Hadoop training from industry experts. Learning Hadoop can help professionals take up a leadership role in driving business of clients to leverage meaningful big data insights through analytics.Professionals who are time-constrained must pick their take on which big data role suits their passion and proficiencies before they begin to learn Hadoop online.

2) Learn Hadoop to pace up with the exponentially growing Big Data Market

Travel websites earlier used to help you find your destination and book a trip but now they compare all the related travel websites to make you aware of the best travel deals before you proceed with your booking. Multinational retailers and auction management companies help users easily finds 1000's of products instantly based on their preferences. We have entered the world of big data, Hadoop is an exciting part of the big data world to meet the challenges of the fast paced digitizing era.

Apache Hadoop permits the storage and processing of huge volumes of data with economical commodity hardware. Digital data is leaving its footprints everywhere and thus it is extremely necessary to learn how to store the high velocity, high volume and high variety of data quickly and easily at a relatively economical cost.

Hadoop is regarded as the "Operating System" for distributed HDFS - data file system. The infrastructure layer of Hadoop makes it possible for developers to explore and analyse the huge volumes of big data with MapReduce and other relevant

programming environments for different social or business reasons like understanding customer behaviour, customizing patient care, predicting outcomes of a sport, etc.

The big data paradigm has shifted with advancements in worldwide connectivity and cloud computing. Organizations can now pay only for the processing power as and when they need and buy exactly the amount of storage they require.Managing big data in the era of distributed computing is posing several challenges and Hadoop is one of the best and most important big data analytics tools to coming along as a boon to the challenges.

3) Increased Number of Hadoop Jobs
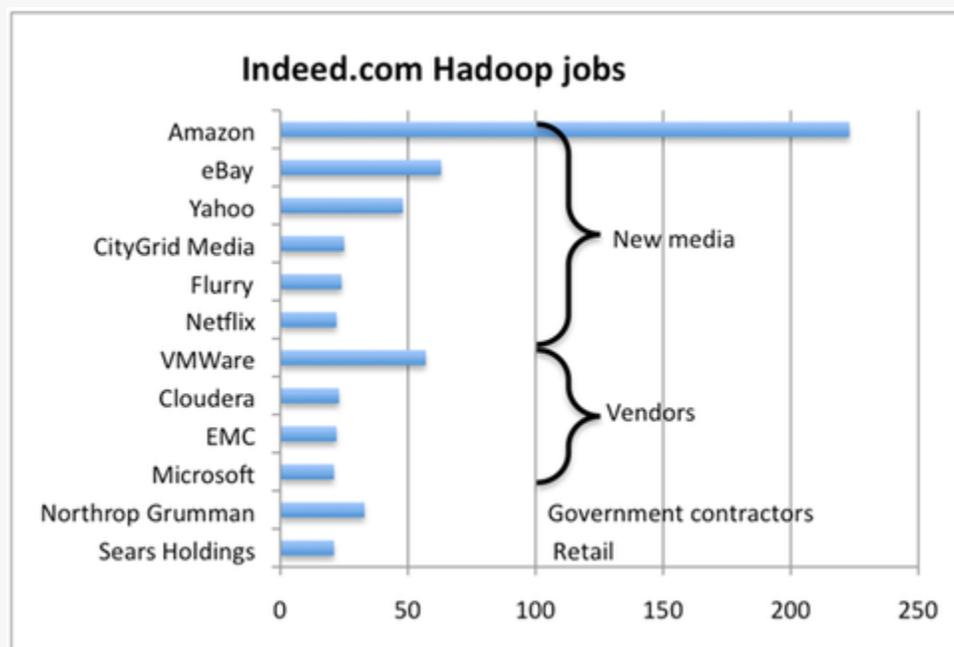
Image Credit: quora.com

Hadoop is mentioned in 4932 of 84,573 job listings on Dice.com as of May 19th, 2015.Here is a snapshot of the total number of Hadoop jobs available for IT professionals as of 16th May 2015:

- Glassdoor.com –3500+

http://www.glassdoor.co.in/Job/hadoop-jobs-SRCH_KO0,6.htm

- Dice.com –4900+

https://www.dice.com/jobs?q=Hadoop+jobs&l=

- SimplyHired.com-1440+

- Indeed.com -2400+

http://www.indeed.com/jobs?q=Hadoop+jobs&l=United+States

The job listings on Glassdoor.com, Indeed.com, Dice.com, and SimplyHired.com show the increased demand for professionals with Hadoop skills in 2015. To fill these job listings and to justify the demand for deep technical talent in engineer centric organizations, professionals must learn Hadoop. Some of the popular organizations hiring for Hadoop skills are Netflix, Google, IBM, Cloudera, Yahoo, Apple, Dell, Nokia, eBay, Hortonworks, Wells Fargo, EMC, Walmart, Fidelity Investments,NASDAQ, Verizon Facebook, and Amazon.

According to Dice.com, Hadoop plus Java skills is the combination that ranks first in the list of top 10 big data skills needed for 2015.

Gartner Analyst Peter Sondergaard said- "Every Big Data-related role *in the U.S. will create employment for three people outside of IT. So over the next three years, a total of 6 million jobs will be generated by the information economy."*

4) **Learn Hadoop to Make Big Money with Big Data Hadoop Jobs**

According to Dice.com, Hadoop is the most sought after skill among organizations looking to leverage analytics through big data, with the average annual salary for an analyst with Hadoop skills averaging $115,062. Dice statistics report show that the pay for Hadoop jobs has increased by 11.6% over 2014.

JOB TITLE	2012	YR/YR CHANGE
Hadoop	$ 115,062	n/a
Big Data	$ 113,739	n/a
NoSQL	$ 113,031	n/a
PMBok	$ 110,885	n/a
Omnigraffle	$ 110,758	n/a
SOA (Service Oriented Architecture)	$ 109,504	1.2%
Mongo DB	$ 108,304	n/a
Jetty	$ 106,936	n/a
Objective C	$ 104,989	9.9%
ETL (Extract Transform and Load)	$ 104,777	-1.6%
CMMI (Capability Maturity Model Integration)	$ 104,331	-3.0%
JDBC (Java Database Connectivity)	$ 103,887	1.2%
Fortran	$ 103,695	2.5%
Korn Shell	$ 103,686	5.8%
Lean	$ 103,625	n/a
FCoE (Fibre Channel over Ethernet)	$ 103,280	4.4%
Scrum	$ 103,262	2.4%
Waterfall	$ 103,230	n/a
Peoplecode	$ 102,818	n/a
SOX (Sarbanes Oxley)	$ 102,771	3.2%

Image Credit: readwrite.com

According to Forbes.com*, "The median salary for professionals with big data expertise is $103,000 a year. The sample jobs in this category comprise Big Data Solution Architect, Linux Systems and Big Data Engineer, Big Data Platform Engineer, Lead Software Engineer, Big Data (Java, Hadoop, SQL) and others."*

Organizations are ready to pay a high premium to retain or find Hadoop talent that will help them make meaningful sense of their data-Big money is in Hadoop big data jobs.

5) Learn Hadoop to pace up with the increased adoption of Hadoop by Big data companies

According to Forrester, in a research paper "Hadoop is a must-have for large enterprises, forming the cornerstone of any flexible future data platform needed in the age of the customer . Hadoop is becoming more than just a data platform. Given its economics, performance and flexibility Hadoop will become an essential piece of every company's business technology (BT) agenda."
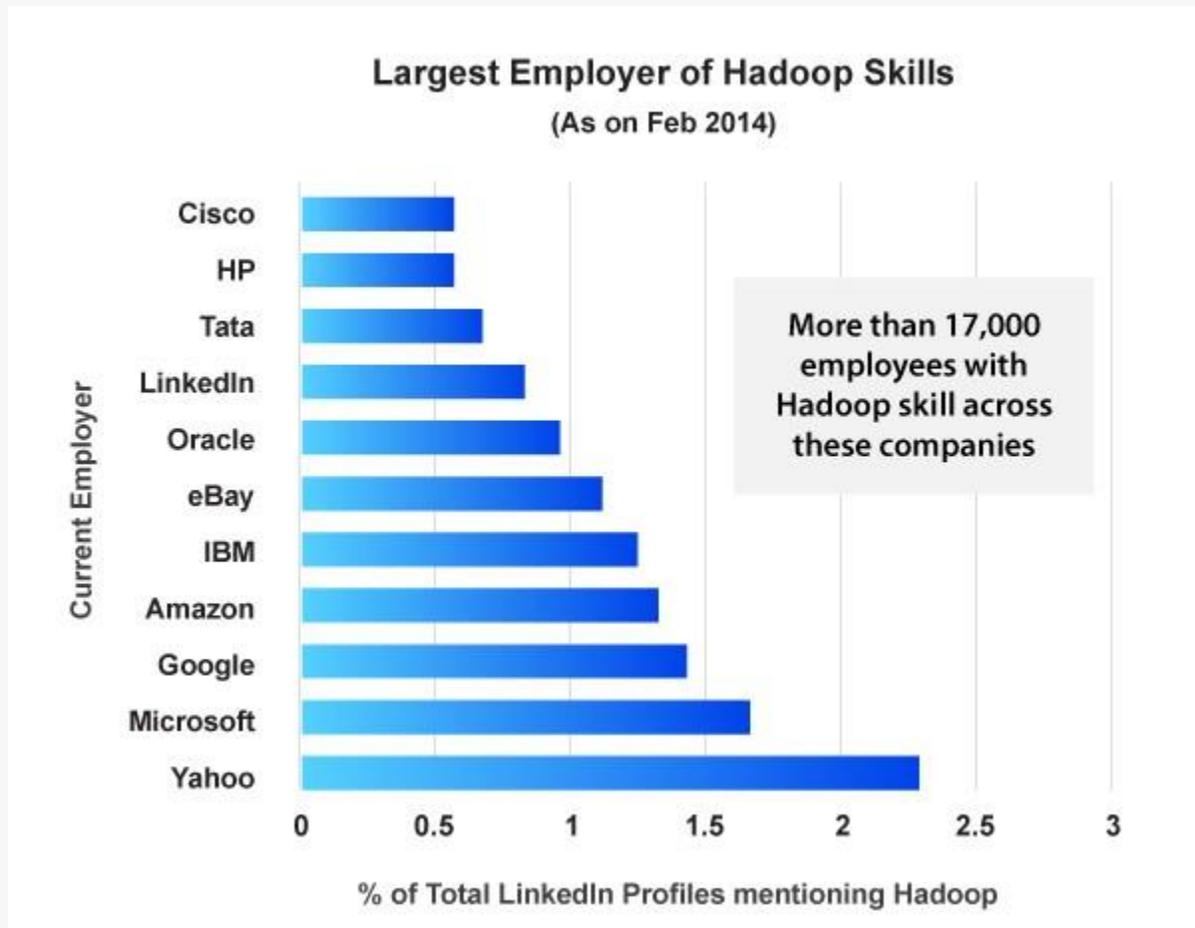
Largest Employer of Hadoop Skills
(As on Feb 2014)

More than 17,000 employees with Hadoop skill across these companies

% of Total LinkedIn Profiles mentioning Hadoop

Image Credit: dataoptsol.com

Gary Nakamura, CEO of Concurrent says -"Hadoop is all set to become a "worldwide phenomenon" in 2015."

The level of big data adoption is accelerating among the Fortune 1000 corporations. Here is the state of big data adoption across various organizations –

12% of big data initiatives are under consideration

17% of big data initiatives are underway

67% of big data in production

The accelerating growth of big data is not just creating more room for business opportunity but also creating huge demand for Hadoop professionals with high salary bracket increasing exponentially.

"Hadoop is the way of the future because companies aren't going to be able to remain competitive without the power of big data, and there just aren't any viable, affordable options aside from Hadoop. " – says Christy Wilson, famous Tech Blogger. The career opportunities for Hadoop skills are endless and highly beneficial. Professionals must learn Hadoop online to get on to the big data bandwagon to master the hottest IT tech skill of 2015