

## MASSIVE OPEN ONLINE COURSEs (MOOC's)

### A Hub of Learning apart from syllabi and curriculum – A Positive Emotional Climate for Learning

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#### **ABSTRACT:**

Learning is a lifelong process. Each and every resource is available in internet; Students are learning everything from internet through online courses apart from the stipulated syllabus and curriculum of the universities. It will give a deeper knowledge in their interested domains. MOOC's are the new methodology which is the origin of self and collaborative learning in which our ideas are distributed, shared and utilized by everyone. Some of the websites will give course, training and certification to their students. MOOC's provide the outcome of the subject and syllabus along with real time practical implementation examples of the industries. The learners will get internship after getting the certification of successful completion and gaining the knowledge. And they can earn money while they are studying, by that Internship they can enter into the Company easily. This is an easy way to enter a company. This course can be learned easily at anywhere and anytime. A student can learn all the courses which are available there is no restriction for this. This can be accessed via web page. All the materials will be provided to the Student. They can read the material throughout the life. Students from anywhere can learn. No need to have a teacher to teach the other concepts the student can feel free and they like to learn by their home. Students at different areas can also learn all the subjects by using this MOOC. Students belong to different discipline can learn anything from the MOOC. There is no limitation to learn from the website. It is free to learn all the courses. MOOC's will increase the personal value of learning task. It will give task specific confident level and positive emotional climate to learning. MOOC's provide a large connectivity with latest technical advancements. MOOC's give the mechanisms of processing the cognitive information that will be supported by novel technology.

#### **The Real Time Scenario:**

As an example a student wants to do a project in PHP platform, that student knows JSP, MySQL only, he does not know about PHP, this PHP is not in syllabus, so he can't ask staffs, for doing his project he chooses some online courses by the help of that, he can complete his process on his own without anyone's help.

In this paper the various platforms of MOOC's are compared, studied and analysed as of our knowledge with help of students and faculty's profile of online courses.

## **KEYWORDS**

Gaining Knowledge, Online Courses, Assessments, Training, Quizzes and Self Learning

### **I) INTRODUCTION:**

Even though students grasp some technical stuff from class room some students would like to get some technical guidance through net. For such studious people a platform called MASSIVE OPEN ONLINE COURSES (MOOC) will be a good choice. This will also be applicable for students those who interested to grab some stuff which is apart from their curriculum. There arises a major questions like will it be useful? And whether I will have lot of choices to choose what is necessary for me.

### **II) HISTORICAL VIEW:**

Earlier the content of MOOC's are open licensed. Now closed license system is followed throughout all platforms. We can say that this MOOC'S are some upgraded versions of correspondence courses which were followed earlier. In olden days, some peculiar courses such as courses for civil service test and shorthand courses were promoted by door to door salesmen. But now we could see many MOOC platforms in our digital display.

During 1920's, In America over four million of them applied for correspondence course which is more than that of regular students strength. But their completion rate is 3%. During 1922's New York University started their own radio station to relay their practical courses. There was no perseverance in this system and they faced some difficulties in finding out mistakes which were done by students. They also faced some difficulties in collecting money for these courses.

Further development over this system was happened during 1940's-1950's during which a component called two ways short wave radio system was used to nurture some knowledge to people at remote areas. This communication will also help people to raise questions and so they will experience some better clarity.

In 1994 a concept called Seminar was emerged which attracted people from various parts of the world. An individual with an internet access or radio can avail this seminar was the constraint during 1990's.

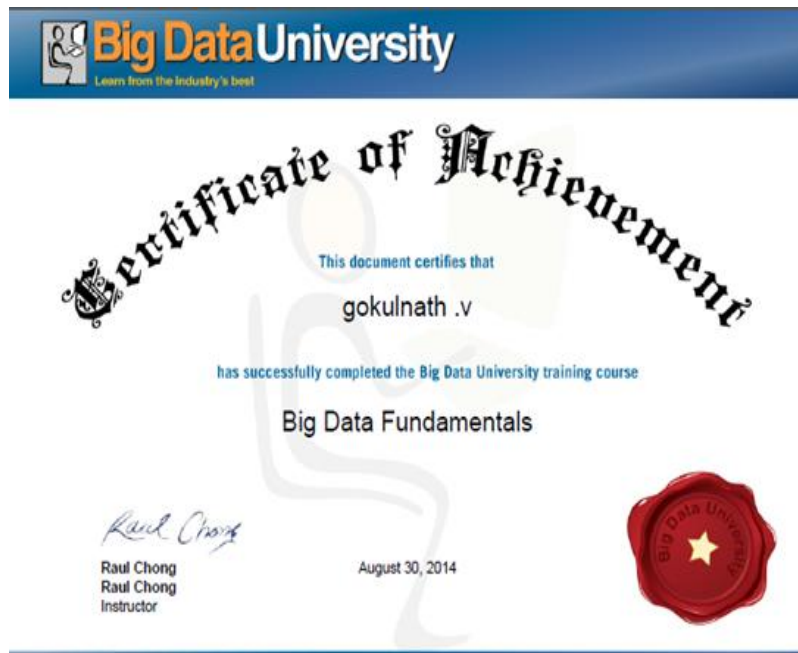
The term MOOC was coined by Dave cornier and Bryan Alexander in 2008. The first MOOC was emerged from Open Educational Resource (OER).

### **III. RECENT TRENDS IN MOOC**

Year 2012 is considered to be "The Year of MOOC" as many financial firms come forward to tie up with top universities to construct many platforms for students those who cannot avail such courses in top universities.

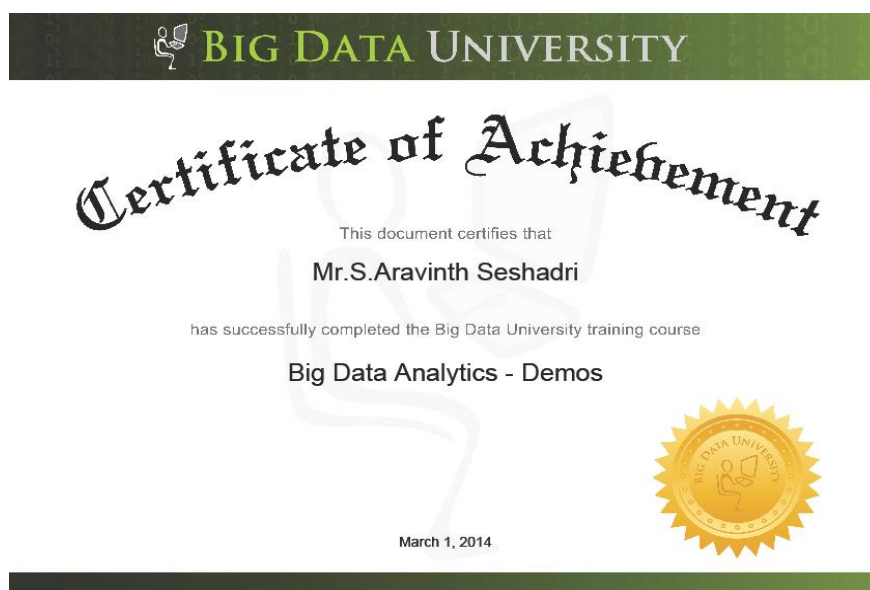
Big Data University, Udemy, Coursera, Future Learn, Alison and edx are some of the platforms which are well known for MOOC courses. This MOOC'S created a great impact over people across many continents like Europe, Asia, and America. The following are the best online learning platforms.

**a) BIG DATA UNIVERSITY – The Massive Self Learning Platform**



Big Data University provides opportunity on various online courses such as Big Data, Hadoop, and DB2 etc. The site gives free-based online courses for students and teachers. Big Data University is hosted on the Cloud, and is run by a group of enthusiasts from around the world which uses Moodle 2 course management system enabled to run on DB2.

In today's generation, the big data plays an important role in large enterprises. The size of the data gets increases day to day by velocity, volume and variety. It handles both structured and unstructured data. The unstructured data grows exponentially and more techniques are needed to handle them.



Since, the big data is one of the emergent technologies in today's industry. The students can make use of free online courses provided by big data university. It also includes hands-on labs that you can perform on the Cloud, on VMWare images, or by locally installing the required software .The certification are provided once you cleared the test.

For example: The available courses are

1. Big Data Fundamentals
2. Introduction to Pig
3. Hadoop Fundamentals I – Version 3
4. Hadoop and the Amazon Cloud

**b) UDEMY – 3A Approach (Anywhere , Anytime & Any one)**



Udemy.com is a platform for online learning which gives opportunities for IT developers. It provides a platform for professionals of any kind to create courses. The courses can be free or payable. The Development Courses are to build IOS, Android mobile apps, or develop websites in HTML, CSS and JavaScript. Programming courses such as Java, C++, and Ruby on Rails, Python and many more are available. The students can make use of offers and reduce their course charging fees.

Each course is trained by an expert instructor, and every course is available on-demand, so students can learn at their own pace, on their own time, and on any device. There is no official "start date" to the course and "end date". We can start learning completely on your own time. There are several lessons within a single course most courses include a mix of video, audio, presentations, and documents.



As an example: The available courses are

- Business & entrepreneurship
- Programming
- Academics
- The arts
- Health & fitness
- Language
- Music
- Technology
- Games

### **c) Coursera – The Massive Online Courses ;**

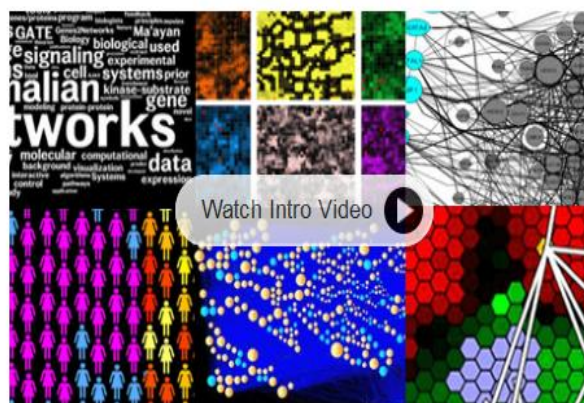
At 2011 Stanford University launched three courses and they obtained a good response which leads to root cause for the initiation of Coursera. Physics, Engineering, Biology, Humanities, Medicine, Social science, Mathematics, Business, Computer science are some of the basic streams under which they provide some massive courses. To make it somewhat simple they made it to be available under android mobiles and also for iPhone users.

Till now date coursera received around 9.2 million users and it provides 750 courses around various streams as mentioned above from 111 institutions. Even for college credit points five courses under courser are approved for earning credits which was announced by 'American Council For Education'.

Webcams are used to interact with students while conducting examination and they charge around \$60-\$90 for this purpose. Two to three months of time is required for completing this courses which

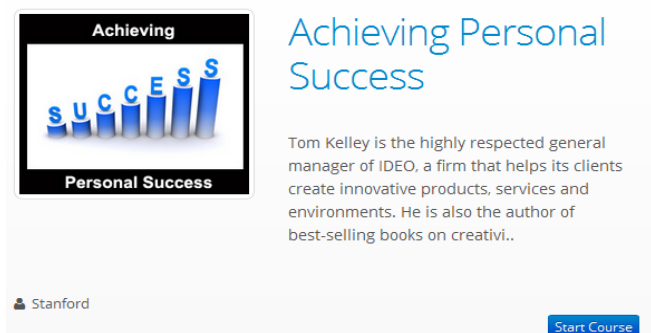
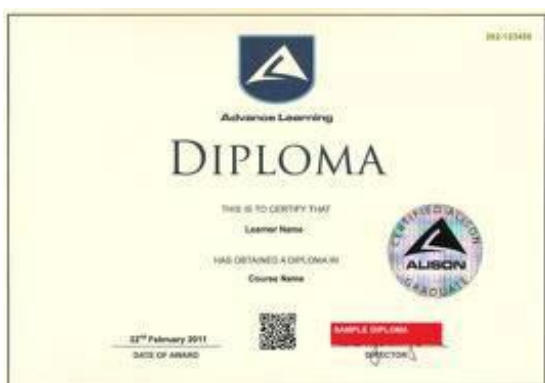
includes two to three hours long videos per week. It also includes puzzles, assignments and some more interaction. All this contents can be availed free of cost and they also provide two way interactions (i.e.) interaction between students and faculty through some websites. Anyone with internet access can avail the service of pursuing the courses under courser.

Stanford University, University of Michigan and university of Pennsylvania are some of the partners for courser. A tie up with US state department helped to avail the courses of coursera by people all over the world.



#### d) ALISON – A New World of Free Certified Learning

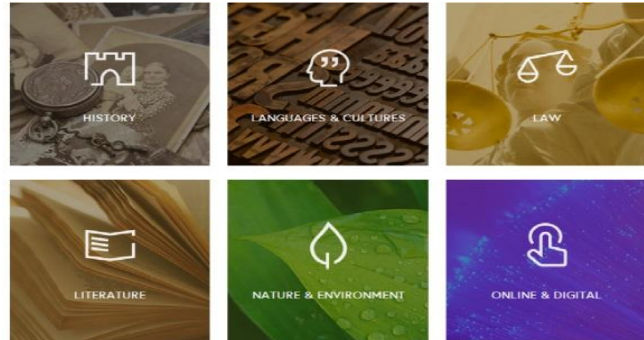
ALISON (Advanced Learning Interactive System Online) is said to be pioneer platform for MOOC, which is founded in Galway, Ireland in 2007, and the main theme of this platform is to provide basic education and work place skills to people across different parts of the world. Main thing which is to be noted is mass of Alison learners from India. Till now ALISON received more than 3 million registrations.



ALISON says that the people in developed countries are paying and so people in developing countries can avail all study materials for free. It offers nearly about 600 courses across various streams in ten different languages. ALISON also insists that there is no time limit in completing courses and so self-interest is must to complete these courses. Most popular course in ALISON is ABC IT and we need to spare about 15-20 hours to complete this course. Even though we can learn any course of top

universities MOOC's faces a serious lag in providing practical learning and they could also find a lot of drop-outs.

**e) FUTURE LEARN – Thousands of Learners Platforms with Diverse of High Quality Courses around the World**



Future Learn is a massive open online course (MOOC) learning platform founded in December 2012 as a company wholly owned by The Open University in Milton Keynes, England. Future Learn was launched with 12 university partners. This company has several partners from various countries like UK, Europe, Africa, Asia and Middle East. Future Learn few British universities had run online courses.it provides a free course from all range of topics. Through this website it connects people and ideas. It provides several courses like cyber security, digital marketing, discover dentistry and preparing for UNI. This website can encourage all the participants to achieve the goals. It has knowledge and Experience in the Open University and among our consortium of partners, who will also share their wealth of experience as educators with each other, to create the best possible final product.

**COMPARISONS OF LEARNERS KNOWLEDGE& SKILLS**

**Learning from Class Room Teaching**

S.No	Topics	Teaching Methodologies	Self-Learning	Efficient	Collaborative Learning	Connections to Bodies	Outcome
1.	Big Data Analytics	Chalk, Talk & Walk	No	Moderate	No	To Faculty	To get Theoretical Knowledge
2.	Pig, Hive , Scoop Languages	Chalk, Talk & Walk	Moderate	No	Less than Moderate	To Faculty	To get Theoretical Knowledge
3.	CISCO CCNA Networking	Power Point Presentation	Moderate	No	Less than Moderate	To Faculty	To get Theoretical Knowledge
4.	TCP, HTTP and STDPS	Lab Experiments	No	No	Less than Moderate	To Faculty	To get Theoretical Knowledge
5.	IP Addressing and Sub netting	Lab Experiments	No	No	Less than Moderate	To Faculty	To get Theoretical Knowledge
6.	Tech Basics – Tables & Connectors	Power Point Presentation	No	Less than Moderate	Moderate	To Faculty	To get Theoretical Knowledge

### Learning through MOOC's:

S.No	Topics	Teaching Methodologies	Self-Learning	Efficient	Collaborative Learning	Connections to Bodies	Outcome
1.	Big Data Analytics	Video Tutorials	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To get Practical Knowledge
2.	Pig, Hive , Sqoop Languages	Quizzes & Industry Examples	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To do Real Time Projects
3.	CISCO CCNA Networking	Assignments & Problems	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To get Real Time Examples
4.	TCP, HTTP and STDPS	Case Studies & Demo	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To get Real Time Examples
5.	IP Addressing and Sub netting	Practical Demo	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To get Real Time Problem Solving Scenario
6.	Tech Basics - Tables & Connectors	Real Time Examples	Yes	Yes	Yes	To Faculty , Industry Experts and Various Exponents	To get Real Time Problem Solving Scenario

### Conclusion:

To conclude, e-learning such as MOOC's will change the traditional way of teaching and it will provide the environment by the way teaching staff will learn about the future of teaching pedagogy. Institutions will need to look and learn from the different initiatives outside traditional institutions that are developing new business, financial and revenue mode and it will definitely meet the different needs of learners group in the market place. Today's generation of faculty members graduated under traditional way of teaching while the next generations of faculty members will graduate will utilize ICT and e-learning as a natural ingredient for their education. The possibilities of how far ICT and e-learning will influence education could be far reaching.

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