

Editorial

Data Science and Analytics: The emergence and issues in technology & academics

Data Science and Big Data Management is the analytical methods required for the hands-on applications using example datasets, and perfectly useful in gaining of experience with confidence of using the methods etc. Data preparation, processing with structured databases, key-value activities of big data and analytics. Big Data Management educated are in high demand in industries and organizations, such skilled resources should know the understanding of the data science as well as the skills of analyze and interpreting data. Data Scientist are using number of methods and solid foundations for data analysis and representation. In recent past similar to western universities many Indian universities and higher educational institutes have started programs on Data Science and allied areas. Globally as far as IT industry is concerned UK playing key role in offering various Data Science programs which include Data Science and Technology, Big Data and Intelligence, Big Data Management, DBMS with Analytics, Data Management and Analytics, Business Data Analytics and so on. The following points are suggested for solid and sustainable development in this regard—

- ❑ Big Data is not only a tool these days but also an important field of study in the academia and research.
- ❑ Applications of Big Data are increasing day by day rapidly in almost all kinds of sectors and apart from Private industries, organizations and institutions even in Government sector too applications are rising.
- ❑ In many US and some of the European countries Big Data Programs are available as BSc, MSc degrees and mainly available in the UK. However few Indian Universities are offered specialization in this subject as well.
- ❑ Data Science modules and courses are also been started in Computing and some Quantitative Subjects such as Management Science, Statistics, Mathematics, Physical Sciences, Operation Research etc.

- ❑ In India too some of the universities have started academic programs in this field and among these important are UPES, Hindustan University, UST offered BTech-CSE with Specialization in Data Science & Analytics.
- ❑ Universities and research centers of many Developing countries even in phase of starting Big Data Science and Data Analytics but there main concern is about proper support, fund and collaboration.
- ❑ Proper collaboration is essential to establish for healthy implementation of the Data Science in the academia and industries.
- ❑ Organizations and Institutions are need to establish proper collaboration and communication in real life and complete development of the projects.

Organizations are changing rapidly and they are seeking ready manpower, and in this regard many universities offering collaborative programs and industry integrated programs instead of general programs. The growth of Corporate Universities and collaborative research centers for enhancing training, academics and R&D in the areas of data science, big data and cloud computing are important in many developing countries in the line of developed countries. Many countries such as India, Pakistan, Bangladesh, Indonesia, Brazil, South Africa etc are moving for implementing new age education systems for complete and developed sustainable information infrastructure building. However the aspects of fund, technological issues and factors are essential for complete development of data centric intelligent world. Therefore it is a need of hour to look into such matters and concern from the government, industries and societies.

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