

Faculty Development Program on Bigdata Computing:



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANISES A 3 DAY FDP
THROUGH WEBINAR
ON

"BIG DATA COMPUTING"

SPEAKERS



Prof. Veena R S
Former Head, Dept. of CS&E,
K.S. School of Engg, Bangalore



Prof. Mamatha T
Asst. Professor, Dept. of CS&E,
RVCE, Bangalore

DATE & TIME

Dates: 6th-8th October
Time: 2:00pm-4:00pm



REGISTRATION LINK

<https://forms.gle/X9MNCtoPVFFQeLw16>

About FDP

Day-1 : Big Data & Apache Spark

Big Data is also data but with a huge size. Big Data is a term used to describe a collection of data that is huge in volume and yet growing exponentially with time. In short such data is so large and complex that none of the traditional data management tools are able to store it or process it efficiently.

Apache Spark is a data processing framework that can quickly perform processing tasks on very large data sets, and can also distribute data processing tasks across multiple computers, either on its own or in tandem with other distributed computing tools. These two qualities are key to the worlds of big data and machine learning, which require the marshalling of massive computing power to crunch through large data stores

At a fundamental level, an Apache Spark application consists of two main components: a driver, which converts the user's code into multiple tasks that can be distributed across worker nodes, and executors, which run on those nodes and execute the tasks assigned to them. Some form of cluster manager is necessary to mediate between the two.

Day:2 :Mapreduce

MapReduce is a processing technique and a program model for distributed computing based on java. The MapReduce algorithm contains two important tasks, namely Map and Reduce.

Map takes a set of data and converts it into another set of data, where individual elements are broken down into tuples (key/value pairs). Secondly, reduce task, which takes the output from a map as an input and combines those data tuples into a smaller set of tuples.

Day-3 :Cassandra

Apache Cassandra is a free and open-source, distributed, wide column store, NoSQL database management system designed to handle large amounts of data across many commodity servers, providing high availability with no single point of failure. Cassandra offers robust support for clusters spanning multiple datacenters, with asynchronous masterless replication allowing low latency operations for all clients.

Cassandra offers the distribution design of Amazon DynamoDB with the data model of Google's Bigtable.

About Department

Department of Computer Science and Engineering (CSE) was established in the year 2000. The CSE Department is Affiliated to Visvesvaraya Technological University Belgaum, Karnataka and was accredited by the National Board of Accreditation, New Delhi for 3 years (2008-2011).

The CSE Department has qualified faculty and has excellent state of the art hardware and software resources. 100% students are placed in high profile companies with good packages. The Department provides in-house Edusat facility for viewing distance learning programs beamed by the VTU and in addition these sessions are recorded for later use by respective departments.

The department has 23 faculty members with staff student ratio of 1:15.

About College

Atria Institute of Technology was established in the year 2000 under the management of A S Kuppa Raja & Brothers Charitable Foundation Trust. This self-financed private institution is a unit of the distinguished Atria group.

The institute is located at Hebbal in Bangalore, Karnataka. The institute is affiliated to the Visvesvaraya Technological University (VTU), Belgaum. It is approved by the Government of Karnataka and the All India Council for Technical Education (AICTE), New Delhi. It has been accredited by the National Board of Accreditation, & graded by NAAC-Nationa Assessment and Accreditation Council-New Delhi.

The institute is counted among the reputed technical institutions of Karnataka. It has a team of well qualified and dedicated faculty who guide and groom the students towards academic excellence in the field of Engineering and Management.

The institute follows a student-centric approach and implements many innovative programs to help the students to achieve success and become globally acceptable engineers.

No Registration Fee.

Platform Details and link to the webinar will be shared with the registered participants .

eCertificates will be provided to the participants after the submission of the feedback.

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