LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

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http://www.lbrce.ac.in, Phone: 08659 – 222933, Fax: 08659 – 222931 Extn:109

DEPARTMENT OF INFORMATION TECHNOLOGY

Report on "Industry Expectation on Data Engineers"

Event Type: Workshop (Online)

Date / Duration: 4th – 6th June,2021, Three days

Resource Person: Mr. Battu Mahesh Reddy

Lead Software Engineer,

Epam System India.

Name of Coordinator(s): Dr. Satuluri Naganjaneyulu, Professor., Dept. Of IT, LBRCE-Mylavaram.

Co-Cordinators: Dr.B. Rama Devi, Associate Professor., Dept. of IT, LBRCE-Mylavaram.

Mr. Annapareddy V N Reddy, Assistant Professsor, Dept.of.IT, LBRCE-Mylavaram.

Target Audience: B.Tech. (Second year& Third year)

Students Total no of Participants: Internal – 200 External-55

Objective of the event: To extend practical knowledge in Industry Expectation

Outcome of event:

At the end of the event students can able to Understand

- Develop, construct, test and maintain architectures
- Align architecture with business requirements
- Data acquisition
- Develop data set processes
- Use programming language and tools
- Identify ways to improve data reliability, efficiency and quality
- Conduct research for industry and business questions
- Use large data sets to address business issues
- Deploy sophisticated analytics programs, machine learning and statistical methods
- Prepare data for predictive and prescriptive modelling
- Find hidden patterns using data
- Use data to discover tasks that can be automated
- Deliver updates to stakeholders based on analytics

Description / Report on Event:

The three-day workshop conducted through Google Meet on the first day and through GoToMeeting on remaining 2 days from 10.00A.M to 12.00.P.M

Day 1 (04/06/2021):

Data engineers are responsible for finding trends in data sets and developing algorithms to help make raw data more useful to the enterprise. This IT role requires a significant set of technical skills, including a deep knowledge of SQL database design and multiple programming languages. But data engineers also need communication skills to work across departments to understand what business leaders want to gain from the company's large datasets.

Day 2 (05/06/2021): Next, in day-2 sessions covered the following topics:

According to Dataquest, there are **three main roles** that data engineers can fall into. These include:

- **Generalist:** Generalists are typically found on small teams or in small companies. In this setting, data engineers wear many hats as one of the few "data-focused" people in the company. Generalists are often responsible for every step of the data process, from managing data to analysing it. Dataquest says this is a good role for anyone looking to transition from data science to data engineering, since smaller businesses won't need to worry as much about engineering "for scale."
- **Pipeline-centric:** Often found in midsize companies, pipeline-centric data engineers work alongside data scientists to help make use of the data they collect. Pipeline-centric data engineers need "in-depth knowledge of distributed systems and computer science," according to Dataquest.
- **Database-centric:** In larger organizations, where managing the flow of data is a full-time job, data engineers focus on analytics databases. Database-centric data engineers work with data warehouses across multiple databases and are responsible for developing table schemas.

Day 3 (06/06/2021): Last day, regular sessions, quiz, feedback and valedictory completed the

topics covered in the last sessions include:

The skills on your resume might impact your salary negotiations — in some cases by more than 10 or 15 percent, depending on the skill. According to data from , the following data engineering skills are associated with a significant boost in reported salaries:

- Scala:
- Apache Spark:
- Data warehouse:
- Java:
- Data modelling:
- Apache Hadoop:
- Linux:
- Amazon Web Services (AWS):
- ETL (extra, transform, load):
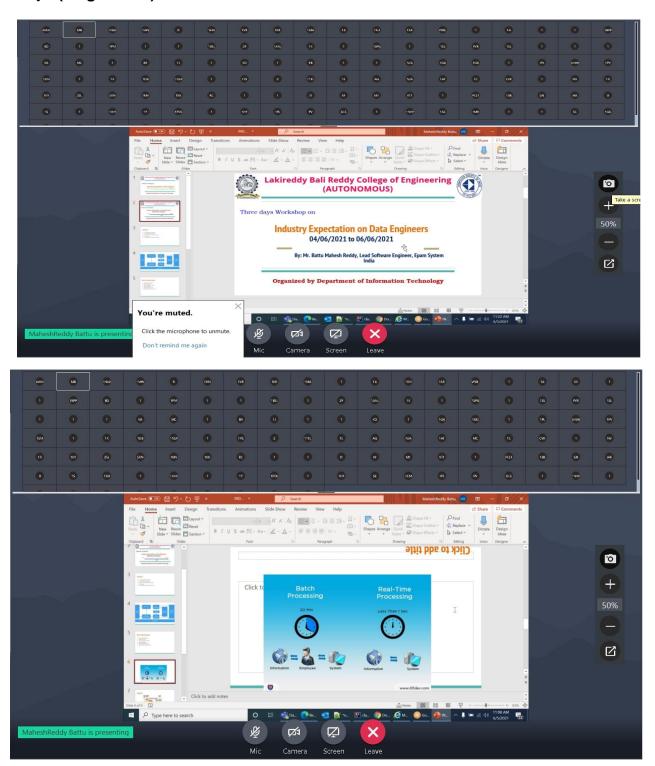- Big data analytics:
- Software development:

Feedback / Suggestions: The feedback survey (through Google sheets) was completed by 200 attendees, a response rate of about 75 percent. The survey's findings on outcomes, satisfaction, overall workshop feedback, and recommendations for improvement.

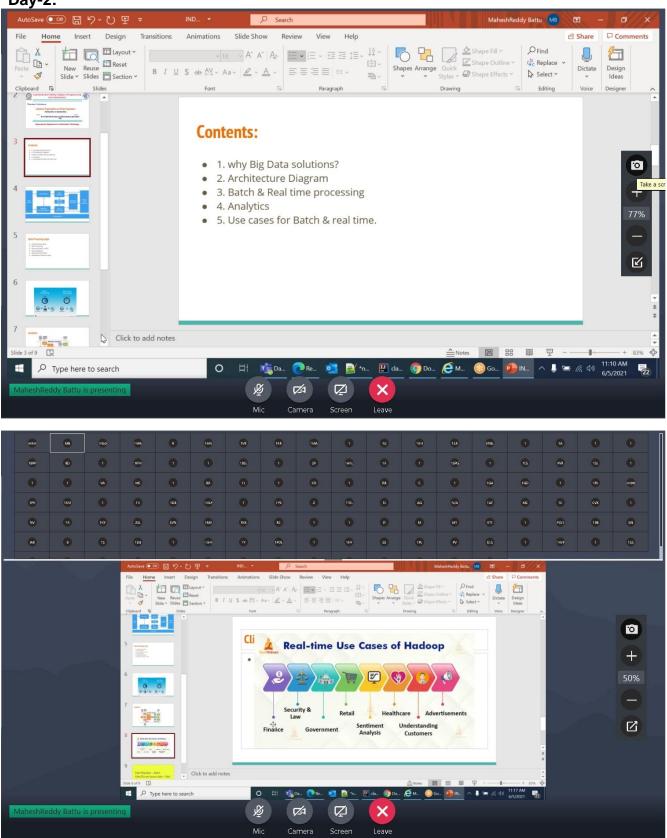| S.No	Content	Excellent	Good	Normal
1	**Content covered and Time management**	98	100	2
2	**Workshop fulfilled your Expectations.**	115	82	3
3	**Workshop was applicable to your career.**	112	80	8
4	**Presenters speak clearly and audibly**	131	65	4
5	**Knowledge gained**	102	94	4
6	**Command of expert over the content.**	114	82	4
7	**Worthiness of workshop**	106	88	6
8	**Overall Workshop rating.**	128	66	5

- Suggested to organize this kind Workshops frequently.
- Recommendations for improving future workshops by providing more time, background information, and documentation.
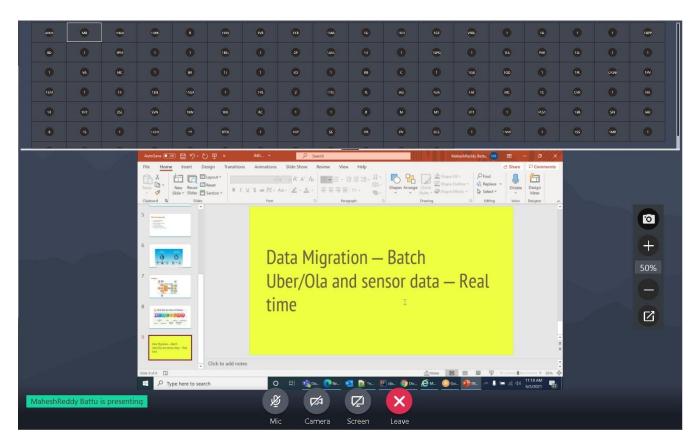
Photographs :(Max 10 limited)

Day-1(Inaguration)

Day-2:

Day-3(Feedback and Valedictory)

2.

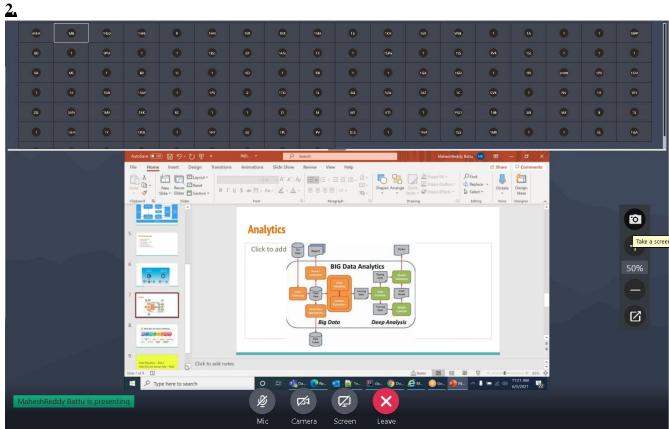**Coordinator**   **Convener**

Dr. Satuluri Naganjaneyulu   (Dr. B. Srinivasa Rao)

Dr.B. Rama Devi

Mr.A.V.N.Reddy