# WORKSHOP ON APPLICATION OF BIG DATA ANALYTICS IN RESEARCH

**DEPT**   **:** Department of Computer Science, IP and research cell

**VENUE :** Business Lab

## RESOURCE PERSONS:

Dr.Chandra. J, Christ University, Prof. Dineesh G (Govt college)

## A REPORT ON

## WORKSHOP ON APPLICATION OF BIG DATA ANALYTICS IN

## RESEARCH

**Dept: Department of Computer Science, IP and research cell**

**Venue: Business Lab**

**Resource Persons: Dr.Chandra. J, Christ University, Prof. Dineesh G(Govt college)**

The **Department of Computer Science and Applications** organised a two-day workshop on "Application of Big Data Analytics in Research". The workshop started with an inauguration ceremony. The Chief Guest, Prof. Dr. Chandra. J, Christ University, was given a hearty welcome to the workshop by the head of the Computer Science department. The inaugural session was followed a short tea-break, after which the first session of the workshop started.

### SESSION 1

Prof. Dr Chandra enlightened all the paricipants with current emerging trends of Big Data Analytics. She gave a complete insight by showing us the demonstration of the process with a short video clip and several slideshows. She inspired student to take up Big Data Analytics for further research.

The participants gained a lot of information and knowledge from this session and expressed their sincere gratitude for organising such a session.

### SESSION 2

Prof. Dineesh G (Govt College ) explained that the concept of big data has been around for years; most organizations now understand that if they capture all the data that streams into their businesses, they can apply analytics and get significant value from it. But even in the 1950s, decades before anyone uttered the term "big data," businesses were using basic analytics (essentially numbers in a spreadsheet that were manually examined) to discover insights and trends.

The new benefits that big data analytics brings to the table, however, are speed and efficiency. Whereas a few years ago a business would have gathered information, run analytics and unearthed information that could be used for future decisions, today that business can identify insights for immediate decisions. The ability to work faster – and stay agile – gives organizations a competitive edge they didn't have before.

**Day 2**

**Date: 10 July 2018**

**Venue: Business Lab**

**Time: 09:30am to 03:30pm**

**Resource Person: Dr Samiksha Shukla, Professor, Christ University and Prof. Uma Bharathi, Govt College**

**Topic: Cyber Security**

**Session 1**

Dr Samiksha Shukla, Professor at Christ University, began the session for the day. She explained why cybersecurity involves protecting information and systems from cyberthreats. Cyberthreats take many forms, such as application attacks, malware, ransomware, phishing and exploit kits. Recent technological advancements have opened up new possibilities for cybersecurity, but unfortunately, adversaries have benefited from these advancements, as well. Taking advantage of automation, attackers can deploy large-scale attacks at significantly reduced costs. Further, the cybercrime economy makes sophisticated attacks easy to deploy and available to a wide variety of motivated adversaries.

**Session 2**

Cybersecurity tools and technologies where explained in brief by Prof. Uma Bharathi (Govt college). The various topics of her discussion where as follows:

DNS tunneling: Domain Name System is a protocol that translates human-friendly URLs into machine-friendly IP addresses. Cybercriminals know that DNS is widely used, trusted and often unmonitored. DNS tunneling exploits the protocol to transfer malware and other data through a client-server model.

Malicious cryptomining: Browser-based cryptomining attacks are possible when an attacker has found a way to inject JavaScript into a website that allows them to hijack the processing power of site visitors' devices to mine cryptocurrency, such as bitcoin. In the case of malware-based cryptomining, a user's entire device is taken over and its CPU used at a higher level to mine currency.

Ransomware: Ransomware is the focus of a criminal business model that installs malicious software on a device and holds valuable files, data, or information ransom. With its low barrier to entry and high revenue potential, ransomware is the largest threat facing organizations today.

**Faculty members and students attending the session on Big data Analytics**



**The audience for the session on cyber security**
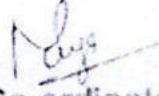
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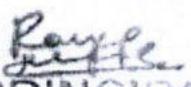St. Francis de Sales College
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## A FRANSALIAN INSTITUTE OF HIGHER LEARNING

**EVENT : WORKSHOP ON APPLICATION OF BIG DATA ANALYTICS IN RESEARCH**

**DATE : 10/07/2018**

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| 141 | SANDEEP.R | 18NCSB7053 | |
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| 143 | SATHISH M | 18NCSB7055 | |
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| 146 | SHASHIDHAR.S | 18NCSB7058 | |
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