**Don Bosco Institute of Technology,Kurla,Mumbai-400070**
**Department of Computer Engineering**

**Report on Data Analytics and Security Mechanisms for service change**

**Date**: 03-09-2021
**Time**: 9-10am
**Platform**: Zoom
**Link:**
https://us02web.zoom.us/j/82504445468 pwd=d2NCY0FLczExSTd0R2dad1hCT3g0UT09
**Resource person:** Dr. Amiya Tripathy
**Number of Participants:** 70
**Faculty Coordinators:** Prof. Sana Shaikh, Prof. Shainila Mulla
**Subjects:** Guest Session on "Big Data Analytics and Advanced System Security and Digital Forensic"


**Report:**

The session started with the definition of big data. We were told about the problems with big data(including the 5 V's) and different types of analytics.The types the speaker spoke about were Descriptive, Diagnostic, Predictive, Prescriptive and Decisive Analysis. Each of these types were briefly discussed. Following the same, the speaker told us about how to apply these analytics to solve critical problemsIn this section, he mentioned the role of analytics,analytics continuum and its classes. Then he discussed Sensemaking, its properties and challenges.
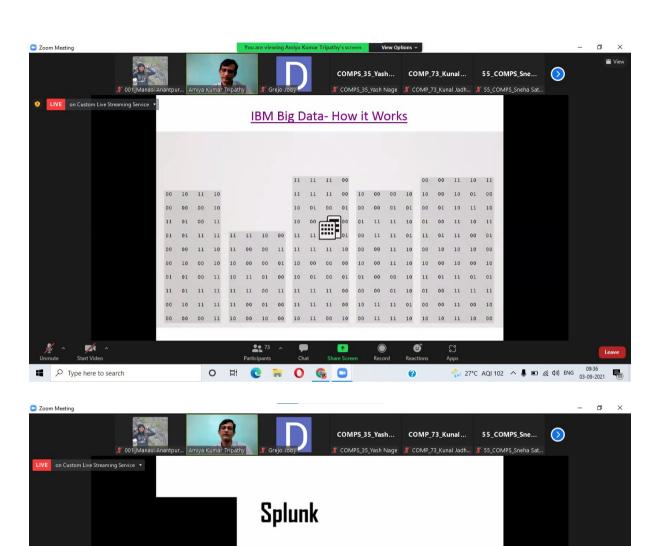
With the above information, the speaker showed us a video about a technological world filled with analytics. He spoke about how analysis is useful in different industry fields.After discussing more theory of Big data, we were again shown a video about how IBM big data works. Speaking more about the architectures, he showed a few examples where big data can be worked on. Again, a video was shown on how necessary it is to develop products that people actually want. The speaker presented his interesting research named AgriCloud. With respect to security related issues various levels of threat were discussed. Trends like remote wor, bring-your-own-device (BYOD) and cloud initiatives have provided hackers new ways to infiltrate your organization by exponentially expanding the attack surface. Technologies like artificial intelligence (AI) and machine learning (ML) have given these hackers new tools to distribute malware, vector in on high-end targets, and reach bigger and more diverse audiences.All these risks were discussed briefly.Towards the end, he spoke about where we are now in the fields of Big data and how to achieve more security in the existing systems. The session concluded with a vote of thanks by Ms Manasi.

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**Pictures:**

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**Report prepared by:**                                      **Report Approved by:**
Shainila Mulla and Manasi Anantpurkar                        Sana Shaikh