January, 2023

Monthly Insights

Department of Information Technology

Articles

How to manage data in the age of the 5G technology

In the age of 5G technology, managing data is more important than ever. The increased speed, low latency, and high-bandwidth capabilities of 5G networks enable the collection and transfer of vast amounts of data in real-time. This data can provide organizations with valuable insights and business opportunities, but it also presents new challenges in terms of privacy, security, and data governance.

Here are five steps organizations can follow to effectively manage data in the age of 5G technology.

1. Data Collection: The first step in managing data is to ensure that the data collected is relevant and adequate for the intended purpose. With 5G technology, it's possible to collect massive amounts of data in real-time, so it's important to have proper mechanisms in place to manage this data. Organizations should consider using edge computing and IoT devices to collect and process data closer to the source, reducing the amount of data transferred over the network.

2. Data Storage: The next step is to store the data in a secure and accessible manner. Cloud storage solutions are becoming increasingly popular, offering scalable options for data storage that can grow with the organization. It's also important to consider the security of the data stored, using encryption and other security measures to protect the data from unauthorized access.

3. Data Processing: Once the data has been collected and stored, organizations need to use appropriate tools to process and analyze it. Big data analytics and artificial intelligence algorithms can help organizations extract insights from the data and make informed business decisions.
Organizations should also consider using data lakes and data warehouses to store and process data for analysis.

4. Data Privacy and Security: With the increasing amount of sensitive data being collected, it's crucial to implement robust privacy and security measures to protect the data from unauthorized access and theft. This includes using encryption and authentication mechanisms, as well as implementing data privacy regulations such as GDPR.

5. Data Governance: Finally, organizations should establish a comprehensive data governance framework to ensure data quality, accessibility, and compliance with relevant regulations and laws. This framework should include policies and procedures for data management, as well as roles and responsibilities for data stewards, data analysts, and other stakeholders.

In conclusion, managing data in the age of 5G technology requires a comprehensive approach that considers data collection, storage, processing, privacy and security, and governance. By following these steps, organizations can turn the vast amounts of data generated by 5G technology into valuable insights and business opportunities.

Rupesh Darpe ,SEIT

Activities

The NSS unit of XIE organized a rural-visit camp to Tara village, Panvel from 02-08 January 2023. Over the week, the NSS volunteers experienced a grounded and authentic social culture of cleaning the village premises, clearing out the lawn, preparing their own meals, and interacting with people. They interacted, too, with students of the Zilla Parishad Primary schools of Barapada and Kalhe, and conducted various learning activities for them.

The Volunteers also left their mark by painting beautiful positive and social messages on the school's outer walls. Director, Fr. Dr. John Rose also visited to motivate the NSS-volunteers in their humanitarian venture. NSS-staff coordinators, Prof. Vijay Jumb, Prof. Bhagyashree Chari, and Prof. Chhaya Narvekar accompanied the volunteers throughout the days of the camp. The department of Information Technology of XIE organized a Faculty Orientation Program via Google Meet on 'Knowledge Management' (a subject in Sem VIII), on behalf of the University of Mumbai on 18th January 2023.

The most awaited celebration of ‘Christmas’ and ‘NBA Accreditation’ was finally held on Saturday, 21st January 2023. Director, Fr. Dr. John Rose and Principal, Dr. Y.D. Venkatesh addressed the staff members in LH01 and shared congratulatory remarks for the NBA Accreditation received by XIE’s EXTC and IT departments. The scores awarded to each department were displayed and areas to improve on were discussed. They thanked all the departments and the staff for their role in this success. Thereafter, the most awaited ‘Stealing Christmas’ event was held on the turf. All the staff and faculty members actively participated in the fun activity. The event was coordinated by Prof. Martina D’souza and Prof. Panil Jain.

The department of Information Technology of XIE organized a Faculty Orientation Program via Google Meet on ‘Knowledge Management’ (a subject in Sem VIII), on behalf of the University of Mumbai on 18th January 2023.

Achivement

Prof. Jaychand Upadhyay helped frame the curriculum for ‘Diploma in E-waste management’ program by the government of India.

Jaychand Upadhyay
IT Dept

Our Amazing Crew

Xavier Institute of Engineering
A SISTER INSTITUTE OF ST XAVIER'S COLLEGE, MUMBAI

XAVIER INSTITUTE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY

IT DEPARTMENT MAGAZINE COMMITTEE

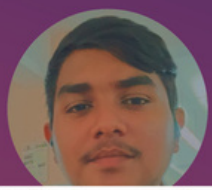
Editor in chief
Sulochana Devi

Graphics Designer
Rimson Saviour

TE Student Editor
Anisha Prabhu

News Reporter
Anusha Dhaundiyal

SE Student Editor
Saksham Gupta



Article Documentation
Harshwardhan Gupta