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Guest Lecture 10.2.2024 Future of Cloud Computing from the Department of ISE & CSE

A Report on Guest Lecture : "Future Of Cloud Computing"

Date of the Event	Feb 10 2024
Title of the Event	Guest Lecture on Future Of Cloud Computing
Organized by	Dept. of Information Science and Engineering (Data Science), MVJCE, Bangalore

The Department of Information Science and Engineering organized a guest lecture on "Future of Cloud Computing" on February 10, 2024, at the MV Jayaraman Auditorium. The event started at 10:30 AM and concluded at 1:00 PM. A total of 520 students from the III and V semesters of the Department of ISE and CSE attended the event.

The Chief Guest was Mr. Tejas Rana, Technical Manager at HCL Technologies.

Figure 1: Chief Guest: Mr. Tejas Rana

With all the trending technologies emerging today, cloud computing stands out as one of the most prominent and renowned technologies in the IT industry. The economic growth of cloud computing has increased drastically in recent years. Most companies are now migrating their businesses to this domain. It originated in the 1950s with shared computing and evolved into cloud computing by 2010, becoming a major force in the market.

Cloud computing is the delivery of IT resources on demand with pay-as-you-go pricing. The vendor, known as the Cloud Service Provider, is responsible for service provision and managing all the undifferentiated heavy lifting of IT. The recurring challenges of maintaining and managing data centers, infrastructure, and deployments faced with on-premises solutions have now been resolved by cloud computing.

Figure 2: Cloud Computing Session

The Cloud Service Provider (CSP) offers a wide range of facilities and flexibility in its services, aiming to help clients focus on developing their businesses rather than managing physical infrastructure, maintenance, and operations. These services are primarily categorized into three types: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). Cloud computing primarily operates on the ideology of virtualization. It provides users with rapid elasticity and flexibility, ensuring resources can be supplied on demand as needed. Cost

efficiency, scalability, and environmental friendliness (reduction in e-waste) are also among its major advantages.

Cloud computing also presents various future prospects, such as AI integration, gaming, and edge computing.

The working process follows a linear order, starting from data centers acquiring all the hardware resources, racking and stacking them, and managing and maintaining them to fulfill client requests on demand. It involves several mechanisms, such as APIs, CDNs, and load balancers, to manage incoming requests and outgoing responses, along with various monitoring tools. For deployment, cloud computing provides four types of models: public, private, hybrid, and community. The CSP and the client enter into a common agreement called a Service Level Agreement (SLA), where each party is assigned responsibilities for certain resources and operations.

Figure 3: Audience

Few examples of companies implementing cloud technologies like Oracle Cloud.
Cloud opens the following careers to jump in for working with it

- Cloud Architect: Design scalable and secure cloud environments.
- Cloud Developer: Build applications for cloud platforms.
- Cloud Security Specialist: Focus on securing cloud infrastructure and data.
- DevOps Engineer: Streamline development and operations in the cloud.

- Data Engineer/Cloud Data Scientist: Analyze large datasets using cloud tools.
- Cloud Administrator: Manage day-to-day operations of cloud platforms.
- Solution Architect: Develop comprehensive solutions with cloud services.
- Cloud Consultant: Advise on cloud adoption and migration strategies.
- Technical Support Specialist: Provide support for cloud users.
- Cloud Sales and Marketing: Promote and sell cloud services.

Faculty Coordinator of the Event:

Mrs. Kavitha (Asst Professor, Dept. of ISE)

Mrs. Sayani (Asst Professor, Dept. of ISE)

Student Coordinators:

1. Usha Singh G (1MJ21IS112)
2. Chandana C (1MJ21IS025)
3. Shruthi A Iyer (1MJ21IS102)
4. Vasudev Krishna (1MJ22IS124)
5. Rudransh Gupta(1MJ22CD045)

Outcome of the Event:

The guest lecture inspired many students to pursue a career in cloud computing. All the questions raised by the students were addressed, and the event provided enlightening insights into how IT operates today and how it has evolved over time.