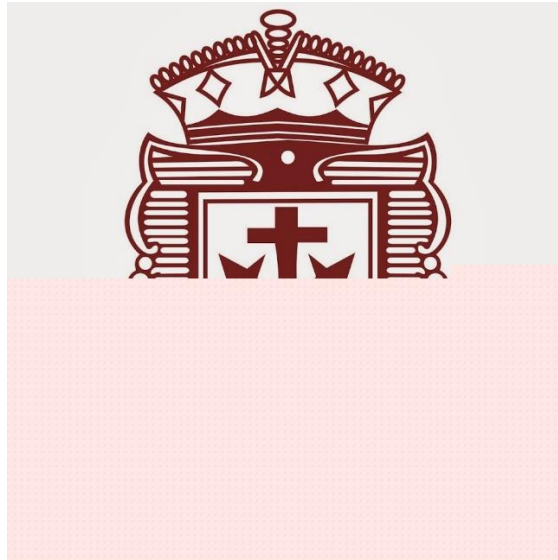


**MOUNT CARMEL COLLEGE AUTONOMOUS,**  
**BENGALURU**



**REPORT ON CLOUD COMPUTING WORKSHOP**  
**PEER LEADING**



Date: 30 SEPTEMBER 2023 & 07 OCTOBER 2023

Location: MOUNT CARMEL COLLEGE, UG LAB

Presenter: III MSc. STUDENTS

No. of Participants: 36

The Cloud Computing Workshop, organized by the 3rd MSc. students for the final year BSc. students, was a two-day event aimed at providing a comprehensive understanding of cloud computing and its practical applications. This report summarizes the content, activities, and outcomes of the workshop, which took place on 30/09/2023 and 07/10/2023

The workshop started with a word of God, setting a positive tone for the event and welcoming faculty of computer science department and students with warm greetings.

Workshop Highlights:

Topic	Presenter	Timings
Introduction to Cloud Computing	Thrupti	12:00-12:12
Basic terminologies of Cloud	Varshini	12:12-12:23
Architecture of Cloud	Aishwarya	12:23-12:26
Cloud Service Models	Akshaya	12:26-12:34
Types of Clouds	Megha	12:34-12:36
Applications of Cloud	Gayathri	12:55-1:05
Difference of Cloud Storage & Cloud Computing	Anushka	12:40-12:50
Hadoop Explanation	Simritha	01:05-01:17
Handson Session & Ubuntu Installation	Simritha	1:17-01:50
---- <i>LUNCH BREAK</i> ---		
Setting Up Hadoop		2:25-2:50

The first day of the workshop was dedicated to introducing the fundamental concepts of cloud computing to the participants. The agenda included discussions on various aspects of cloud computing, hands-on activities, and practical demonstrations.

## **Day 1: Introduction to Cloud Computing**

### **Overview**

Understanding Cloud Basics:

1. Definition and key concepts of cloud computing.
2. Basic terminologies related to cloud computing.

Overview of cloud architecture.

Cloud Service Models:

1. Explanation of Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
2. Advantages and use cases for each service model.

Types of Clouds:

1. Public, private, and hybrid clouds.
2. Pros and cons of each cloud type.

Applications of Cloud Computing:

1. Real-world examples of cloud computing in various industries.
2. Discussion on the benefits of using cloud services for businesses.

Cloud Storage vs. Cloud Computing:

1. Differentiating between cloud storage and cloud computing.
2. Understanding the role of each in the cloud ecosystem.

## **Hands-On Session**

To reinforce the theoretical knowledge gained during the morning sessions, a hands-on session was conducted in the afternoon. During this session, participants learned how to:

Installing the Ubuntu operating system.

Setting up Hadoop, a popular distributed storage and processing framework used in big data applications.

## **Day 2: Practical Application of Cloud Computing**

### **Overview**

The second day of the workshop focused on practical applications of cloud computing, with an emphasis on working with big data using Hadoop.

## Workshop Agenda

1. Working with Big Data:
2. Introduction to big data concepts.
3. Explanation of MapReduce programming model.
4. Overview of Hadoop as a big data processing framework.
5. Hands-On Activity: Word Count Program
6. Participants were guided through the process of executing a Word Count program using Hadoop.
7. Practical experience in processing large datasets.

The workshop concluded with a vote of thanks to the participants and organizers. It was a successful event that provided valuable insights into cloud computing and big data processing. The participants gained a deeper understanding of the cloud ecosystem, its components, and practical applications.

Feedback from the participants was overwhelmingly positive, with many expressing a desire for more advanced workshops in the future. Based on the success of this workshop, the organizers plan to conduct more in-depth sessions on cloud computing, big data, and related technologies in the coming months.

In conclusion, the Cloud Computing Workshop was a valuable educational experience for the final year BSc. students, providing them with essential knowledge and practical skills in cloud computing and big data processing.

