



## EVENT REPORT 02

# Scholarships by IEEE Computer Society

Date: 13<sup>th</sup> November 2020

Organized by:

**IEEE STUDENT BRANCH & CS CHAPTER, BMSIT&M**

**Coordinators: Dr Anjan Krishnamurthy, Dr Sunanda Dixit**

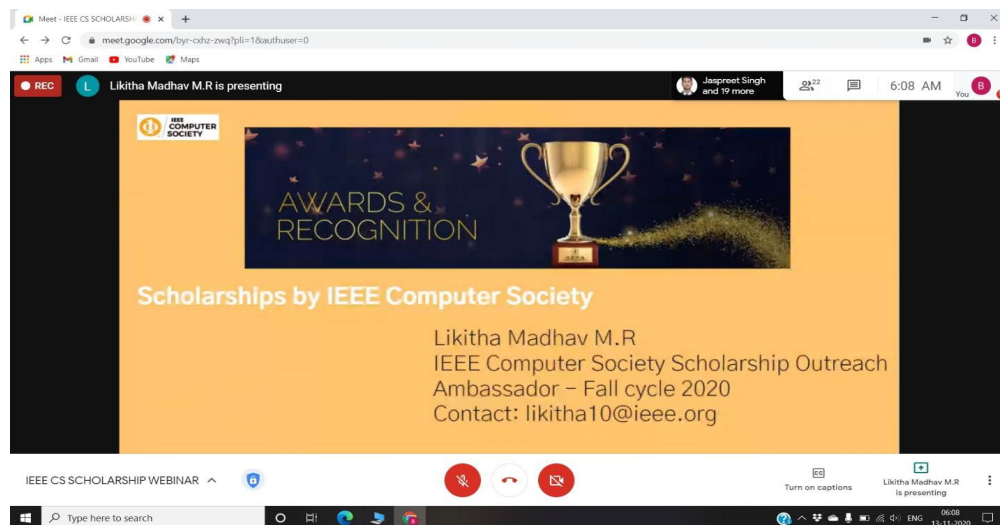
**Total Number of Participants: 30**

**Targeted Audience: Students**

### About the event:

The session was addressed by Ms. Likitha Madhav, Chair, IEEE BMSIT&M Student Branch. Likitha is one of the ambassadors of the IEEE Student Young Professionals Scholarship Outreach Initiative. And as part of this initiative, Likitha had an opportunity to present a webinar on the Scholarships given by IEEE Computer Society. Likitha shared valuable insights about the scholarships along with the required hints in filling the application form. Participants were happy with the webinar and clarified their doubts.

### Photograph:

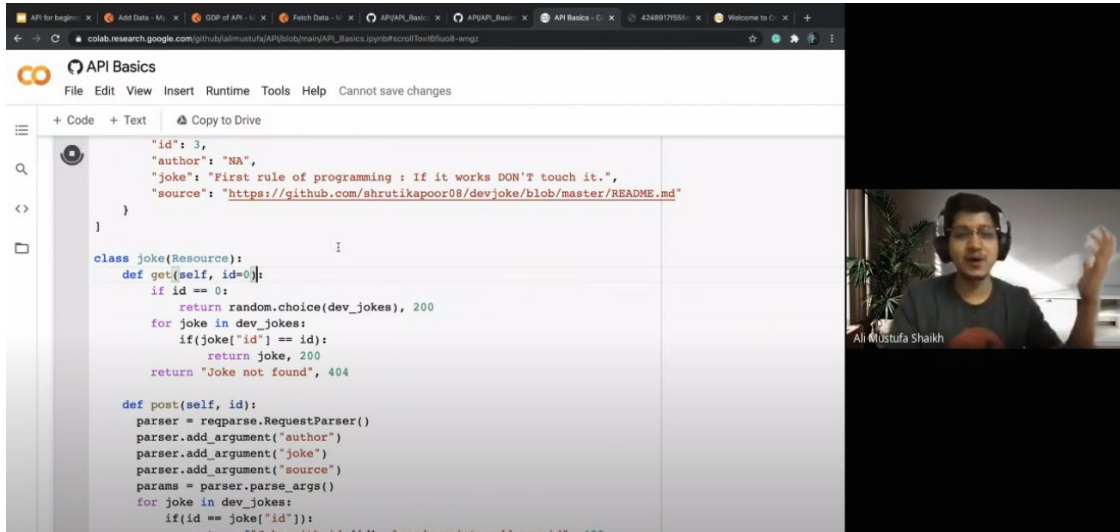


**EVENT REPORT 11****APIs for Beginners****Date: 11<sup>th</sup> January 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter****Coordinators:** Roobini G and Dr. Sunanda Dixit**Total Number of Participants: 40****Targeted Audience:** Students**About the event:**

The first session "APIs for beginners" on the themed series "Getting Started with Google" was handled by Mr. Ali Mustufa, who gave the necessary insights for improving an application. Mr. Ali Mustufa is a Student Community Manager at Postman, Software Innovator at Intel, Cloud & ML Trainer, and also a TEDx Speaker. He has been awarded the prestigious IEEE MGA Larry K. Wilson Regional Student Volunteer Award (for IEEE Region 10-APAC).

The speaker highly focused on the beginner API users. The speaker Mr. Ali Mustufa was really interactive and gave amazing responses to students' doubts. He introduced API and made the students understand what API is. Then Mr. Ali Mustufa had the students interact with API using Postman. Later in the session there was a hands on session on making our own API and publishing it. This also included testing the API. Then the speaker talked about other opportunities in this field. At the end of the session there was a Q&A session and a challenge project.

## Photograph:



The screenshot shows a Google Colab notebook titled "API Basics". The code defines a REST API using Flask. It includes a GET endpoint for jokes and a POST endpoint for adding new jokes. A video call inset shows a man wearing headphones, identified as Ali Mustafa Shaikh.

```
API for beginn... x Add Data - M... x GDP of API - ... x Fetch Data - ... x API/API_Basi... x API/API_Basi... x API Basics - ... x 434897955... x Welcome to C... x +
cslab.research.google.com/github/alimustafa/API/Notebooks/API_Basics.py?ref=scrollfox@f9f8d8-wngr
API Basics
File Edit View Insert Runtime Tools Help Cannot save changes
+ Code + Text Copy to Drive
{id": 3,
"author": "NA",
"joke": "First rule of programming : If it works DON'T touch it.",
"source": "https://github.com/shrutikapoor08/devjoke/blob/master/README.md"
}

class joke(Resource):
    def get(self, id=0):
        if id == 0:
            return random.choice(dev_jokes), 200
        for joke in dev_jokes:
            if(joke["id"] == id):
                return joke, 200
        return "Joke not found", 404

    def post(self, id):
        parser = reqparse.RequestParser()
        parser.add_argument("author")
        parser.add_argument("joke")
        parser.add_argument("source")
        params = parser.parse_args()
        for joke in dev_jokes:
            if(id == joke["id"]):
                return "Joke with id {} already exists add new id".format(id), 400
```

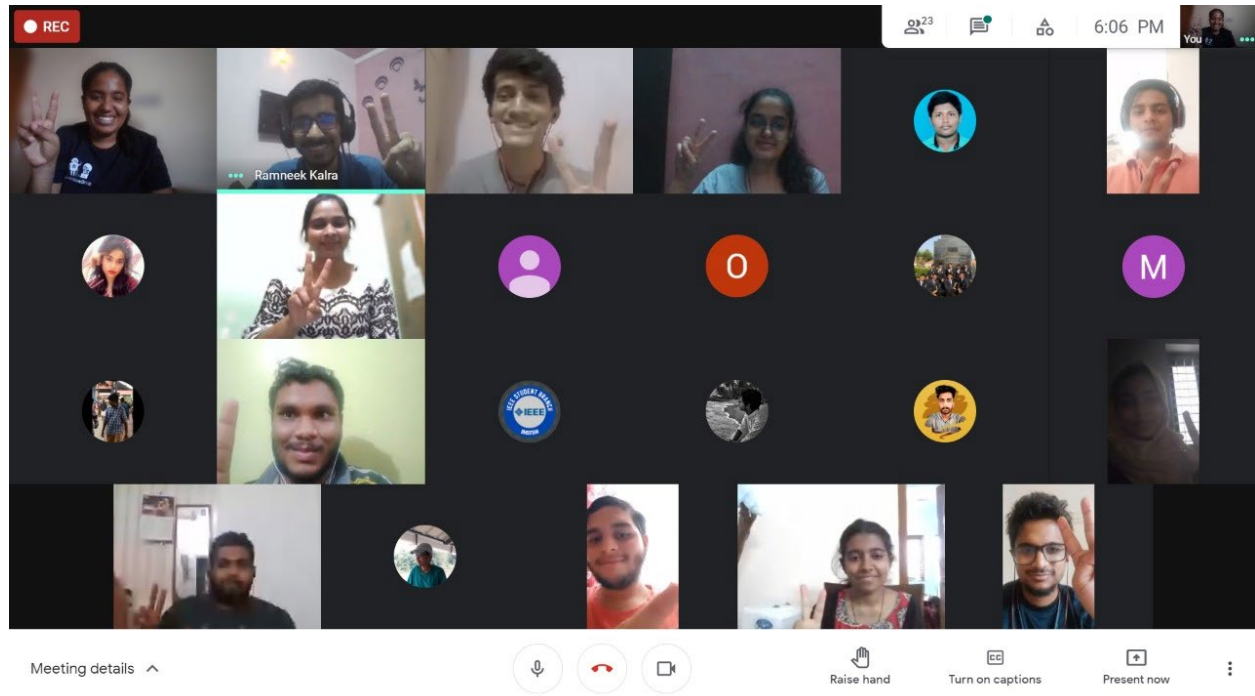
**EVENT REPORT 16****Edge Computing and Emerging Technologies****Date: 23rd May 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Syed Tabrez - Event head Amisha and Srihari Prahlad - Hosts**Total Number of Participants: 30****Targeted Audience:** Students**About the event:**

The speaker of this session was Ramneek Kalra. Ramneek Kalra was Chairperson of IEEE HMR Institute of Technology and Management, Chair of Technical Committee at IEEE WIE ILS 2020. He is a Web Developer at AIACTR, Delhi and currently working at Wipro as project manager. He has authored books and published them with IEEE USA. He has been Chair of Technical Committee at IEEE WIE ILS 2020 and Co-Chair of IEEE Data Science Bootcamp 1.0 under IEEE SSIT Madras Section Chapter. He is a renowned author and Program Co-Lead of IEEE Computer Society Student Leadership Program under IEEE Computer Society SYP Committee.

The session kicked off with an amazing introduction of the speaker by our volunteer followed by a brief summary about the topics that will be covered later in the session. The speaker introduced the participants to cloud computing with an amazing introduction which sparked attentiveness among the attendees, hence making it a great headstart for an event. The speaker thereby continued to keep up the enthusiasm of the attendees by interacting with every participant.

And the speaker drew the limelight on the main topic of the event i.e Edge computing and explained the main features that makes it different from cloud computing, hence captivating the minds of the audience. This continued with speaker exhibiting examples of the need for edge computing. The event concluded with an interactive Q&A session to solve the doubts of the attendees.

## Photograph:



**EVENT REPORT 19****Open Course on Cyber Security and BlockChain Technology****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 60****Targeted Audience:** Students**About the event:**

Cyber Security plays an important role in the field of information technology. Securing the information has become one of the biggest challenges in the present day. Whenever we think about cyber security the first thing that comes to our mind is 'cyber crimes' which are increasing immensely day by day. Various Governments and companies are taking many measures in order to prevent these cybercrimes. Besides various measures cyber security is still a very big concern to many. This course mainly focuses on challenges faced by cyber security on the latest technologies. It also focuses on the latest about the cyber security techniques, ethics and the trends changing the face of cyber security. Block chain is a technology that is developed using a combination of various techniques such as mathematics, algorithms, cryptography, economic models, and so on. Block chain is a public ledger of all cryptocurrency transactions that are digitized and decentralized. All the transactions of cryptocurrencies are stored in chronological order to help users in tracking the transactions without maintaining any central record of the transactions. This course will discuss the security and privacy of the block chain along with their impact with regards to different trends and applications. The chapter is intended to discuss key security attacks and the enhancements that will help develop better block chain systems.

**Photograph:**

Meet - sz-ctdb-fug

meet.google.com/sz-ctdb-fug?pi=1&authuser=2

REC Sharvani G.S. is presenting 1BY19AQ31 Mohammad ... and 54 more 11:18 AM You

# IMPACT OF CYBER SECURITY ATTACKS

Dr Sharvani G S,  
Associate Professor,  
Department of CSE,  
RVCE

Sharvani G.S. Dr. Arjan Kila... 1BY19CS12B ...

Shreedevi R... K Nikhil Aryan... CHEERUKU YA...

P A A

Pragna M V C... Ashutosh Raj... 1BY19CS021 ...

Meeting details

Raise hand Turn on captions Sharvani G.S. is presenting

11:18 AM





Meet - srz-etdb-bsg

meet.google.com/srz-etdb-bsg

REC K K Gopinath is presenting

N Niranjan D K KALYAN SOFTECH 2018-19 and 47 more

9:33 AM

# STORAGE SYSTEMS AND THE BLOCKCHAIN

K Gopinath  
Indian Institute of Science

K Gopinath

Dr. Anjan Kris...

nilesh rathi

SANJAY A S ...

ADITYA KUM...

Pragna M V C...

1BY19CS095 ...

1BY18CS002 ...

NIDHISHA K ...

Meeting details

Raise hand

Turn on captions

K Gopinath is presenting

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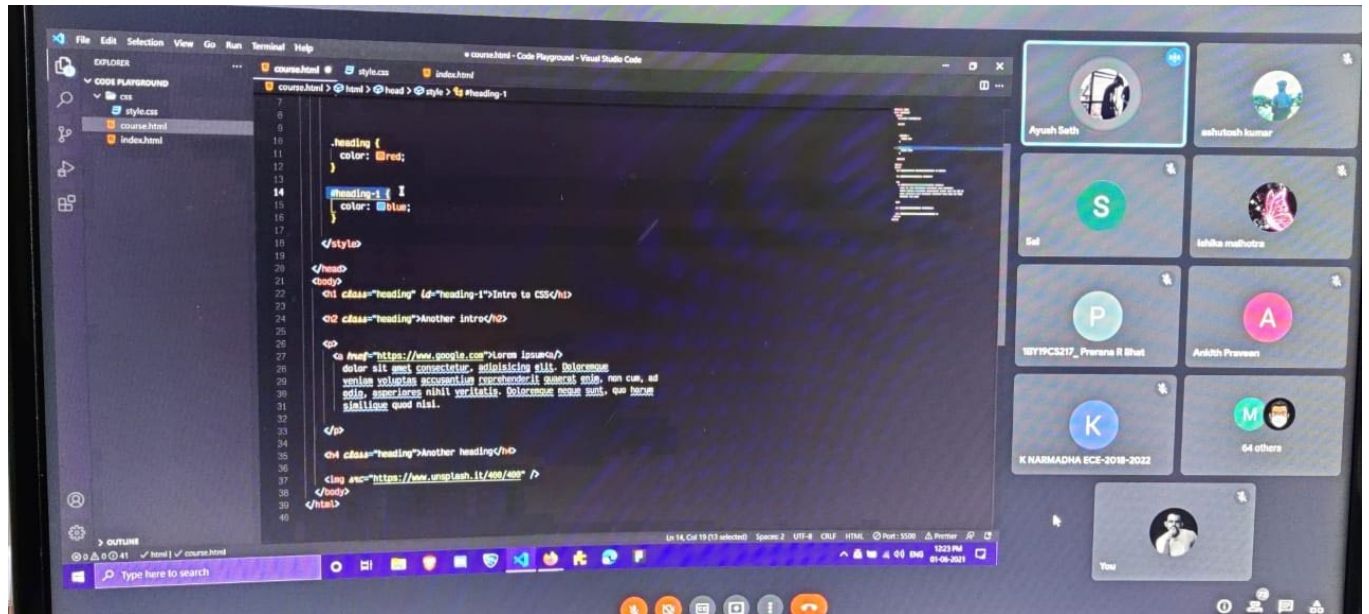
09:33 AM 02-06-2021



**EVENT REPORT 20****Open Course on Web Full Stack Development****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 73****Targeted Audience:** Students**About the event:**

In the digital realm, a website is an essential element for businesses, irrespective of their size and type. It helps them increase their brand presence via the Internet breaking the geographical boundaries. A professional website design itself can be used to attain various marketing strategies in order to help your business surge. Thoughtfully created website designs have a far outspread reach than any other form of marketing tools. A professional web design arouses the curiosity of the visitors to dive in further. Web design is about deciding on a lot of elements such as the layout, graphics, colors, fonts, structure, content, text styles, interactive features, imagery, interface, standardized code, etc. It involves a wide range of skills and disciplines. This 5-days course will mainly focus on forming basics of web development and deployment, which will cover all aspects of frontend, backend and deployment to the server. The main focus of the course is the new technology used in industries called Django which is a framework for web development using python. Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. One of the sessions is on Mobile application development. It is the process of making software for smartphones and digital assistants, most commonly for Android and iOS. The software can be preinstalled on the device, downloaded from a mobile app store or accessed through a mobile web browser. Design and Develop Android applications by setting up an Android development environment.

Photograph:



**EVENT REPORT 21****Open Course on C Programming for Placements****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 50****Targeted Audience:** Students**About the event:**

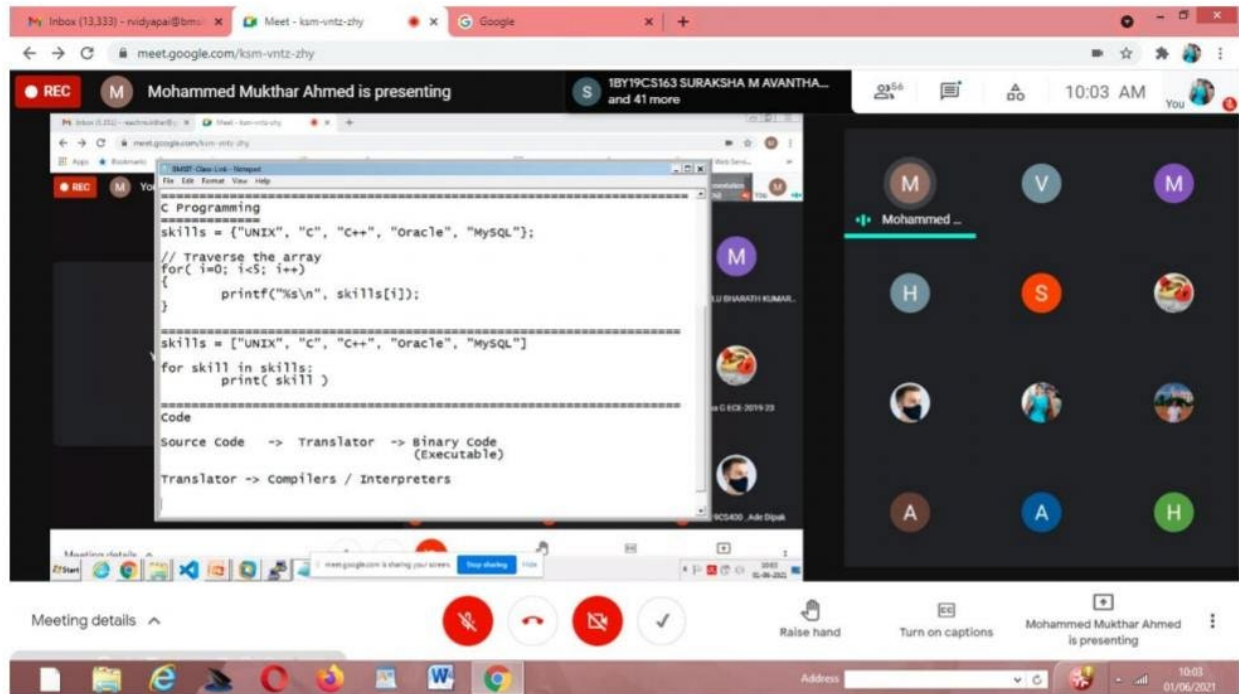
C is a Middle-Level Language. The middle-level languages are somewhere between the Low-level machine understandable assembly languages and High-Level user friendly languages. Being a middle-level language, C reduces the gap between the low-level and high-level languages. It can be used for writing operating systems as well as doing application level programming. Helps to understand the fundamentals of Computer Theories. Most of the theories related to computers like Computer Networks, Compiler Designing, Computer Architecture and Operating Systems are based on C programming language and require a good knowledge of C programming if you are working on them. In the modern high level languages, the machine level details are hidden from the user, so in order to work with CPU cache, memory, network adapters, learning C programming is a must. Fewer Libraries. C programming language has fewer libraries in comparison with other high-level languages. So, learning C programming also clears programming concepts to a great extent as you have to write a lot of things from scratch. You will not be dependent on the programming language entirely for implementing some basic operations and implementing them on your own will also help you to build your analytical skills.

C is very fast in terms of execution time. Programs written and compiled in C executes much faster than compared to any other programming language. C programming language is very fast in terms of execution as it does not have any additional processing overheads such as garbage collection or preventing memory leaks etc. The programmer must take care of these things on his own. Embedded Programming. C is extensively used in Embedded Programming. Embedded Programming is also referred to as microcontroller programming, where C program is used to control micro-controllers. Microcontrollers and embedded programming is widely used in auto-motives, Robotics, Hardware etc..

If a person learns C programming first, it will help him to learn any modern programming language as well. As learning C helps to understand a lot of underlying architecture of

operating systems. Like, pointers, working with memory locations etc. auto-motives, Robotics, hardware etc.. This course is designed to benefit students not only in project building in above specified domains, but also to cater the placement needs. The external resource person is a company trainer with a decade of experience in training software engineers and researchers.

### Photograph:

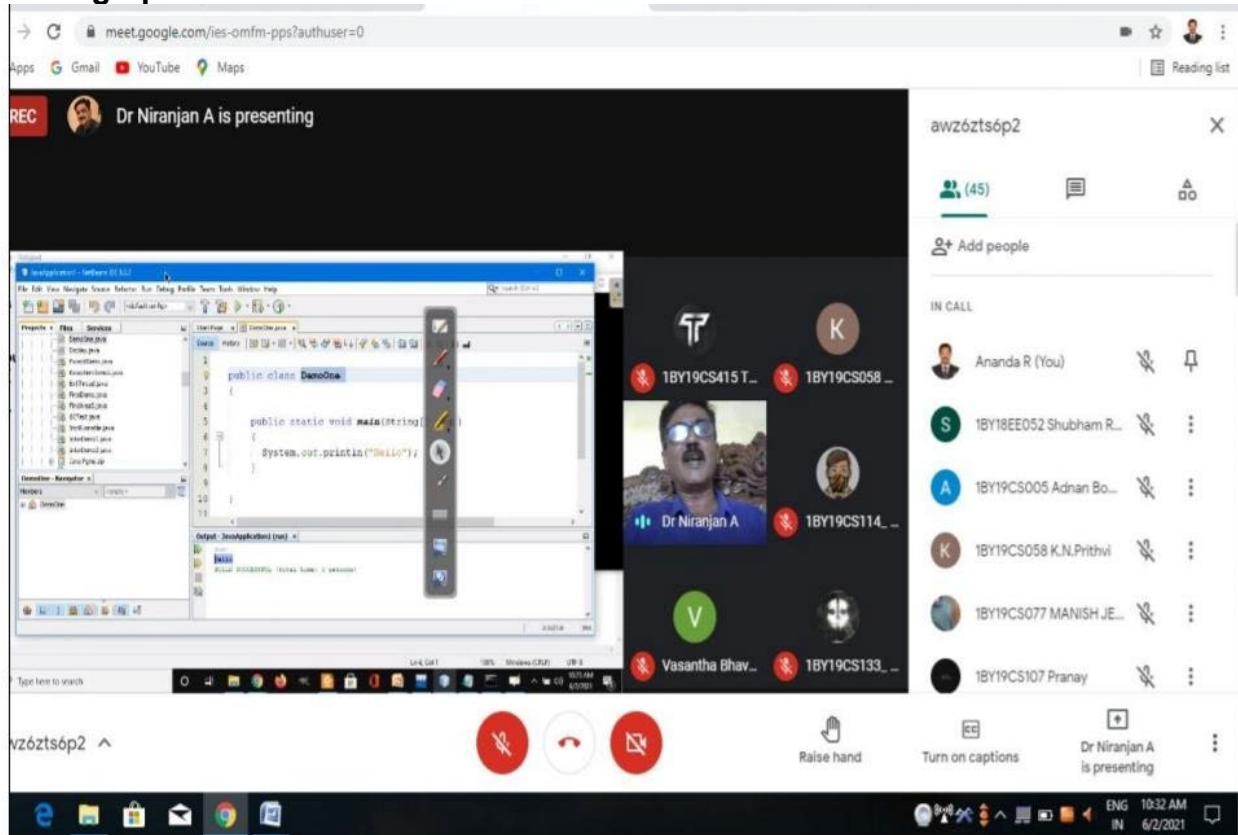


**EVENT REPORT 22****Open Course on Object Oriented Programming with JAVA for Industry****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 73****Targeted Audience:** Students**About the event:**

Java is one of the most popular programming languages in the world today. It works on any platform, and is the core language used in developing Android apps. It's a great first language for any aspiring programmer, so whether you want to program Android apps, web apps, or simply learn the foundational skills. This course will introduce you to some of the most powerful programming concepts in Java, including: objects, inheritance and collections. You will learn how to use these object-oriented programming concepts in code examples, discover how these concepts are used in applications that require user input, and understand the benefits of mastering these concepts in Java. By the end of the course, you will understand how and when to apply foundational Java concepts, and will gain a deeper understanding of the tools and logic that professional Java developers use every day.



## Photograph:



The screenshot shows a Google Meet interface with a presentation in progress. The presentation content is a Java code editor window displaying the following code:

```

public class DemoOne
{
    public static void main(String[] args)
    {
        System.out.println("Hello");
    }
}

```

The output window shows the text "Hello". The presentation is titled "Dr Niranjana A is presenting". The meeting ID is "awz6zts6p2". The participant list on the right includes:

- Ananda R (You)
- 1BY18EE052 Shubham R...
- 1BY19CS005 Adnan Bo...
- 1BY19CS058 K.N.Prithvi
- 1BY19CS077 MANISH JE...
- 1BY19CS107 Pranay

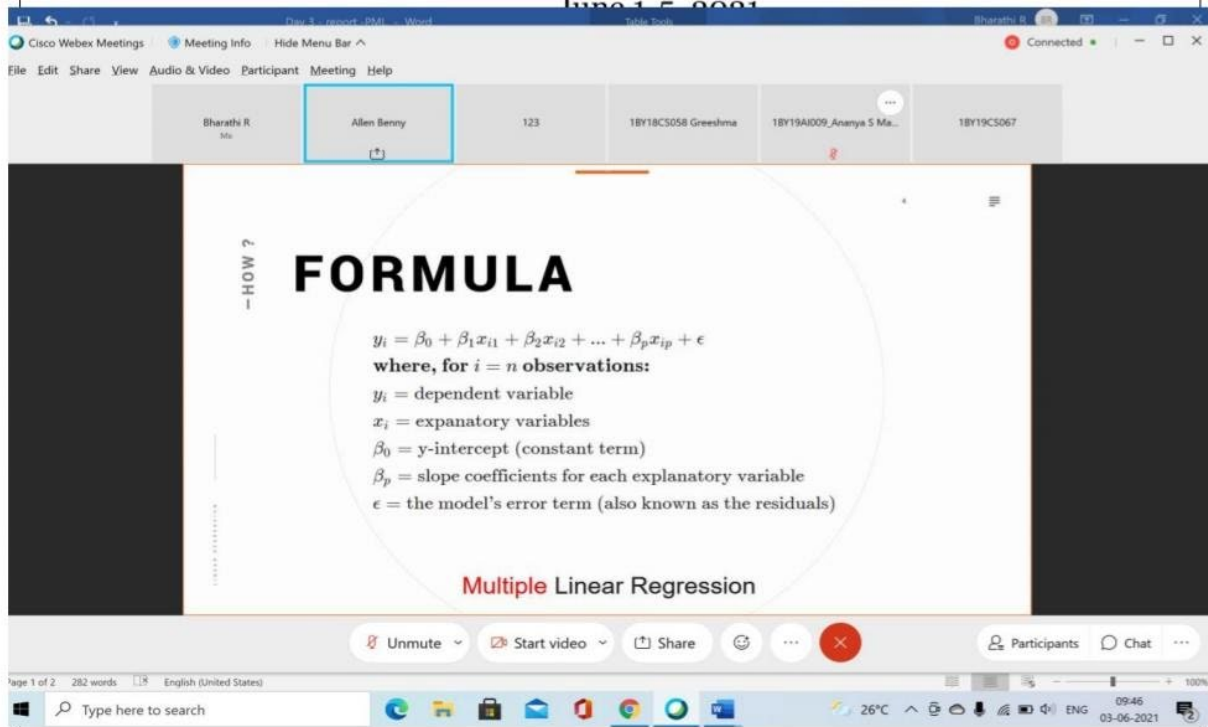
The bottom of the screen shows the Windows taskbar with the time 10:32 AM on 6/2/2021.



**EVENT REPORT 23****Open Course on Machine Learning For Beginners****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 60****Targeted Audience:** Students**About the event:**

In this open course the participants dive into the basics of machine learning using Python, an approachable and well-known programming language. The sessions talk about supervised vs. unsupervised learning, look into how statistical modeling relates to machine learning, and do a comparison of each. The sessions also introduced OpenCV, use of OpenCV in Machine Learning, training and testing the models, the recommendation systems, Ethical hacking, the use of ML in Walmart, Rolls Royce etc. Java developers use it every day.

## Photograph:



The screenshot shows a Cisco Webex Meeting interface. At the top, there's a menu bar with options like File, Edit, Share, View, Audio & Video, Participant, Meeting, and Help. Below this is a participant list with names like Bharathi R, Allen Benny, 123, 1BY18C5058 Greenhima, 1BY19AI009 Ananya S Ma..., and 1BY19C5067. The main content area displays a presentation slide titled "FORMULA" with the following text:

**FORMULA**

$$y_i = \beta_0 + \beta_1 x_{i1} + \beta_2 x_{i2} + \dots + \beta_p x_{ip} + \epsilon$$

where, for  $i = n$  observations:

- $y_i$  = dependent variable
- $x_i$  = explanatory variables
- $\beta_0$  = y-intercept (constant term)
- $\beta_p$  = slope coefficients for each explanatory variable
- $\epsilon$  = the model's error term (also known as the residuals)

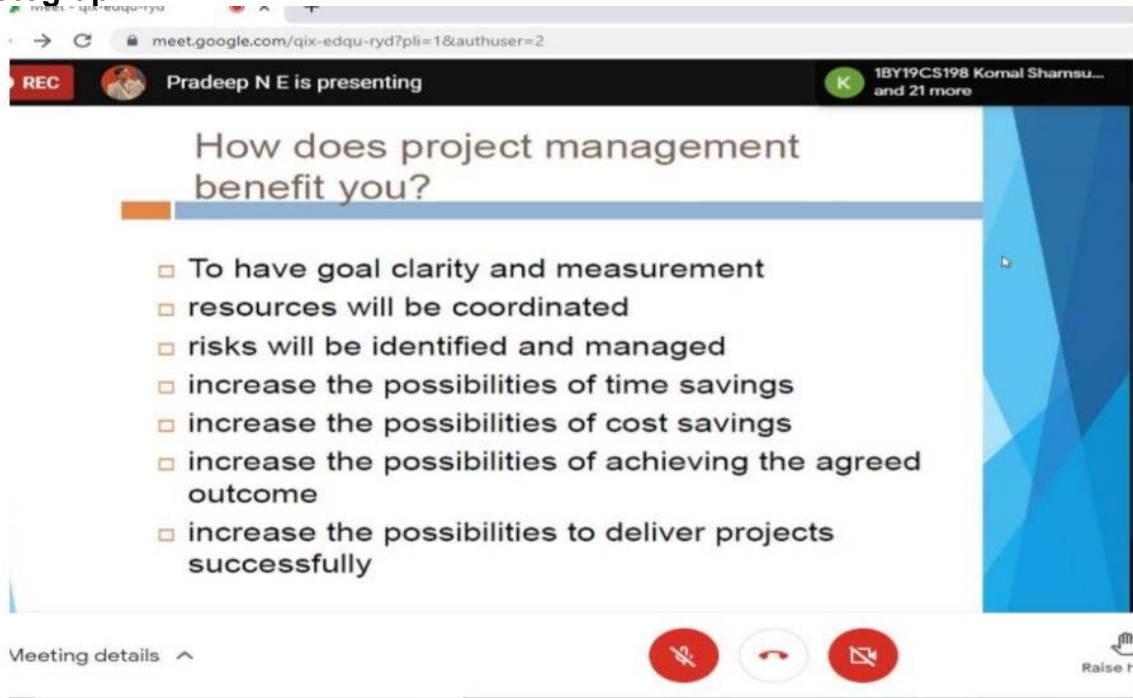
Multiple Linear Regression

At the bottom of the slide, there's a navigation bar with buttons for Unmute, Start video, Share, and a red close button. The bottom of the screenshot shows a Windows taskbar with various application icons, a search bar, and system information like temperature (26°C) and date (03-06-2021).

**EVENT REPORT 24****Open Course on PROJECT AND FINANCE MANAGEMENT****Date: 1st June 2021 - 5th June 2021****Organized by:****IEEE BMSIT&M STUDENT BRANCH, CS Chapter & Department of CSE, BMSIT&M****Faculty Coordinators:** Dr. Sunanda Dixit R, Dr. Anjan Krishnamurthy**Coordinators:** Roobini G and Asif Ali Ahmed R**Total Number of Participants: 36****Targeted Audience:** Students**About the event:**

Project Management and Finance (PMF) is an iterative approach to planning and guiding project processes. The main benefit of Project Management is its ability to respond to issues as they arise throughout the course of the project. Making a necessary change to a project at the right time can save resources and, ultimately, help deliver a successful project on time and within budget. Project methodology breaks down projects into small pieces that are completed in work sessions that run from the design phase to testing and quality assurance (QA). These sessions are often called sprints, the term for iteration used in one specific and popular agile development method known as Scrum.

## Photograph:



meet.google.com/qix-edqu-ryd?pli=1&authuser=2

REC Pradeep N E is presenting 18Y19CS198 Komal Shamsu... and 21 more

### How does project management benefit you?

- To have goal clarity and measurement
- resources will be coordinated
- risks will be identified and managed
- increase the possibilities of time savings
- increase the possibilities of cost savings
- increase the possibilities of achieving the agreed outcome
- increase the possibilities to deliver projects successfully

Meeting details ^

Buttons: Mute, End Call, Close

Raise hand

EVENT REPORT - NUMBER  
**GIRL GEEKS-SESSION 1**  
**CLOUD COMPUTING**

**Date: 17th July 2021**

**Organized by: IEEE CS Chapter BMSIT&M**

**Coordinators:** Roobini G and Dr. Sunanda Dixit

**Total Number of Participants:** 30

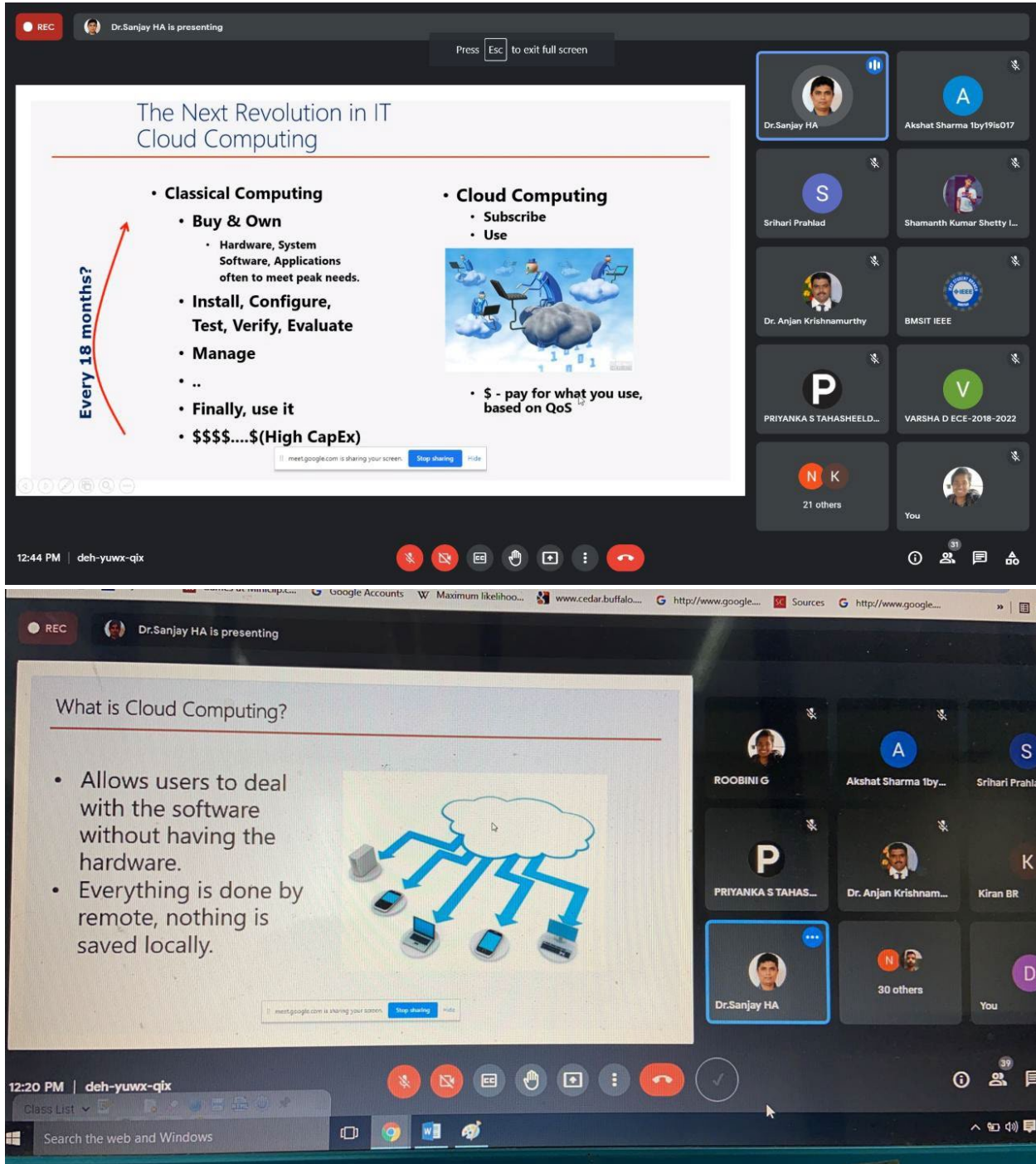
**Targeted Audience:** 40

**About the event:**

The speaker for this event was Dr. Sanjay H A. He is a research pioneer in the field of cloud computing and blockchain technology. He is a B.E graduate from Kuvempu University. He did his masters in computer science and engineering from Visvesvaraya Technological University and he got his Ph.D from Indian Institute of Science (IISc). Dr. Sanjay H A is now a professor and head at Nitte Meenakshi Institute of technology.

The speaker Dr. Sanjay H A started by explaining about "Cloud Computing". He also talked about the importance of cloud computing in the modern world. The speaker walked the attendees through the evolution of cloud computing and the next revolution of cloud computing explaining each stage in detail. He also pointed out the challenges faced in maintaining the hardware and software for cloud computing. Virtual machines were explained in detail. The benefits of containers and containerization were thought in brief. After the session was concluded there was Q&A session where the speaker answered participant's questions.

## Photographs:



**The Next Revolution in IT Cloud Computing**

**Classical Computing**

- Buy & Own
  - Hardware, System Software, Applications often to meet peak needs.
- Install, Configure, Test, Verify, Evaluate
- Manage
- ..
- Finally, use it
- \$\$\$\$....\$(High CapEx)

**Cloud Computing**

- Subscribe
- Use
- \$ - pay for what you use, based on QoS

*Every 18 months?*

**What is Cloud Computing?**

- Allows users to deal with the software without having the hardware.
- Everything is done by remote, nothing is saved locally.

EVENT REPORT - NUMBER

## **GIRL GEEKS-SESSION 2**

# **CLOUD COMPUTING AND DISTRIBUTED HEALTH CARE**

**Date: 17th July 2021**

**Organized by: IEEE CS Chapter BMSIT&M**

**Coordinators:** Roobini G and Dr. Sunanda Dixit

**Total Number of Participants:** 25

**Targeted Audience:** 40

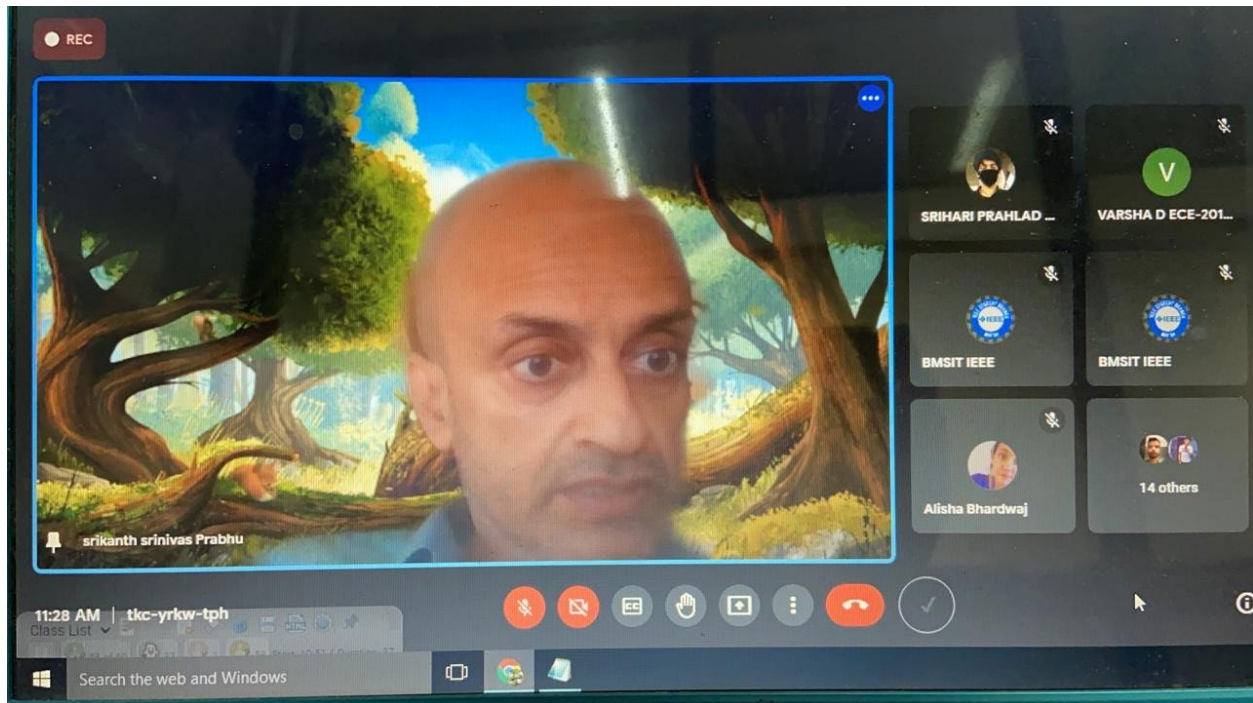
### **About the event:**

Our speaker for this session was Dr.Srikanth Prabhu. He did his M.Sc in Mathematics and specialization in computer science from Sri Sathya Sai Institute of Higher Learning. He has also done his M.tech in computer science and Ph.d from IIT(Indian Institute of technology), Kharagpur.

In the last session the attendees had learnt about cloud computing, different types of clouds and their various applications. In this session our speaker Dr.Srikanth Prabhu talked about cloud computing and Distributed Health Care. In this session our speaker explained the application of cloud computing in the area of health care. Dr.Srikanth Prabhu started by explaining what a distributed system is, later he talked about various parts or steps in distributed systems. Then he explained the working of various biometric systems (finger print, faces and retina) explaining each with a real time example. Then he gave a hands-on demonstration of a face generation case study. Later in the session the speaker explained about the health care systems that use cloud computing.



## Photographs:





EVENT REPORT - 35

## **GIRL GEEKS-SESSION 3**

### **RESEARCH CHALLENGES IN CLOUD SECURITY AND TRUST MANAGEMENT**

**Date: 31st July 2021**

**Organized by: IEEE CS Chapter BMSIT&M**

**Coordinators:** Roobini G and Dr. Sunanda Dixit

**Total Number of Participants:** 30

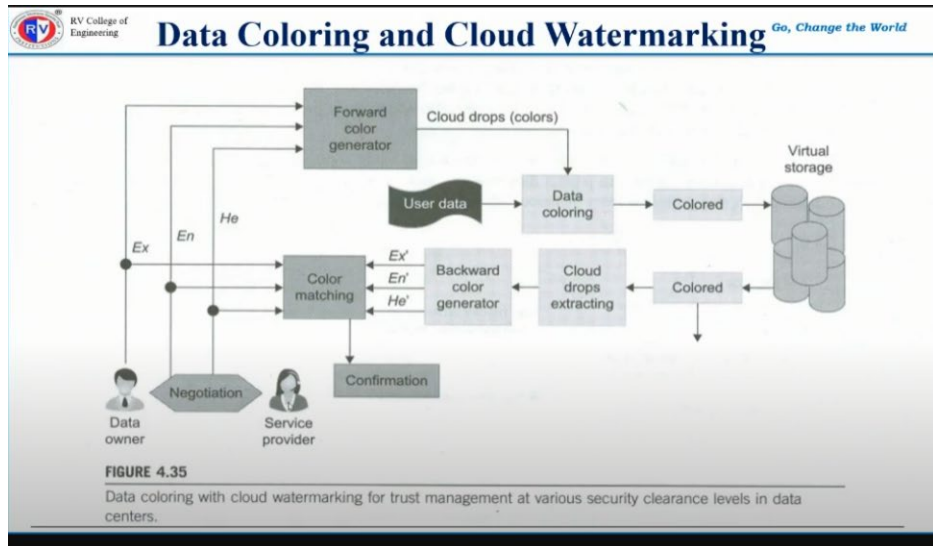
**Targeted Audience:** IEEE CS Chapter members of all chapter under Bangalore section

#### **About the event:**

The speaker for this event was Dr. Nagaraja G S. He is associate dean of the department of computer science engineering at R V college of engineering. He has 26 years of experience in teaching and around 16 years of experience in research in Computer networks. He has worked on various projects sanctioned by UGC and VTU. He has also published various papers in international conferences.

The speaker Dr. Nagaraja G S gave a talk on research challenges in cloud security and trust management. Dr. Nagaraja G S started with a brief introduction about Cloud Computing. Then he went on to explain about the research challenges in the various areas of cloud security. He also talked about trust management. Later in the session he explained about different dimensions of cloud computing.

## Photographs:



Nagaraja G.S.

**EVENT REPORT**  
**GIRL GEEKS-SESSION 4**  
**CLOUD COMPUTING AND CLOUD SECURITY**

**Date: 07th August 2021**

**Organized by: IEEE CS Chapter BMSIT&M**

**Coordinators:** Roobini G and Dr. Sunanda Dixit

**Total Number of Participants:** 30

**Targeted Audience:** 40

**About the event:**

The speaker for the last session of Girlgeeks was Ms. Sangeeta Shetty. She did her masters in computer science. Ms. Sangeeta is the cloud security architect at IBM. She is an accomplished information security professional with 20 years of experience in the IT field, with a successful track record of implementing medium and large scale IT security projects.

The speaker gave a very brief introduction about cloud computing. Then the speaker explained about cloud service delivery models and also about key drivers for cloud adoption. Later the speaker familiarized the audience with the top security challenges for cloud adoption and also the challenges with hybrid cloud security. Then the speaker explained the key security considerations in the public cloud. At the end of the session there was a Q&A session where the speaker answered questions of the audience. It was a very interactive session.

## Photographs:

### The NIST Definition of Cloud Computing

Cloud computing is a model for enabling convenient, **on-demand** network access to a **shared pool** of configurable **computing resources** (e.g., networks, servers, storage, applications, and services) that can be **rapidly provisioned** and released with minimal management effort or service provider interaction.

Source: National Institute of Standards and Technology (NIST) | www.nist.gov  
IBM Cloud | Date: © 2021 IBM Corporation



Sangeeta Murali