



# Saranathan College of Engineering

(Affiliated to Anna University Chennai)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
E magazine 10.0  
**COMSCEWAVE 2020**

## ***About us***

The Department of Computer Science and Engineering was established in the year 1998 with the intake of 40 students initially. It was increased to 60 in 2000 and 120 in the year 2011. This program is affiliated to Anna University, Chennai. This immense growth is due to the efficient working of staff members and students. The department has the pride in showcasing its 100% of admission. With relentless efforts, the department has accomplished Accreditations by the **Institution of Engineers (IEI)** in the year 2015 and **National Board of Accreditation (NBA)** in the year 2018.

The department library is strategically placed to access to all the students. It spreads over an area of 100 sq. ft. It acts as a storehouse of knowledge with over 604 books including books with various domains in Computer Science and Engineering. Reference books are added to the Library every year. The department with its cohesive team of faculty members offers a sound program at the UG level. It shapes the students to keep up with the growing demands and changing trends of the software industry and research laboratories.

Apart from curriculum, the active participation of students in inter and intra college technical contests are being encouraged by the department to develop their interpersonal skills and the students have won many Best Project awards, Mobile App, Web Applications and Coder awards. Students are also actively participating in Infosys Foundation Programs(FP), TCS campus commune, TATA crucible project competition, and CSI Project Contests, etc.

## *VISION OF THE INSTITUTION*

Impart an inclusive engineering education that beyond being a facilitator for a career and rudimentary skills, equips the students to offer ethically & environmentally conscious solutions to societal issues.

## *MISSION OF THE INSTITUTION*

Develop the Institution into a Model Self Financing College of Engineering and Technology. Deliver Professional Training to our students with state-of-the art Laboratories and convert them into Technocrats of international repute.

1. Create a nurturing, holistic environment of engineering education to facilitate every student realize their full potential.
2. Strive to make the students strong in basic concepts armed with appropriate skills to enhance one's ability to apply the knowledge and provide solutions to real time issues.
3. Maintain an ambience that facilitates the students to strengthen their ethical value systems.
4. Actively promote R&D and institute–industry interaction.

## *VISION OF THE DEPARTMENT*

To evolve as a centre of academic excellence and advanced research in Computer Science and Engineering discipline.

## *MISSION OF THE DEPARTMENT*

1. To inculcate in students a profound understanding of fundamentals related to discipline.
2. To inculcate skills, attitudes and their applications in solving real world problems with an inclination towards societal issues and research.
3. To promote research in the emerging areas of computer science and technology

## PROGRAMME EDUCATIONAL OBJECTIVE

**PEO1:** Acquire strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyse engineering problems.

**PEO2:** Develop the ability to analyse the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient software/hardware designs.

**PEO3:** Have exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

**PEO4:** Have awareness on the life-long learning and prepare them for research development and consultancy.

**PEO5:** Have a successful career and work with values & social concern bridging the digital divide and meet the requirements of Indian and multinational companies

## *From the desk of the Principal*



It is our effort to make SCE of Computer Science a top educational institution that can create IT professionals, who blend effectively, technological skills with management perspectives and to impart an inherent discipline that will help them face challenges in the future. Consequently the true education should deepen our insight, widen our horizon and create a meaningful outlook. Equally the students are fortunate enough to have born in a free nation, with all the facilities to shape their career in such a way, that they should be part of a good and healthy society with progressive attitude towards divinity.

**Dr. D.Valavan**  
**Principal**

## *From the desk of HoD*



It gives me immense pleasure to lead the department of CSE. The department has well qualified and eminent faculty. The main objective of department is to develop the students both personally and professionally to achieve successful career in Industry, Research and Academics. Consequently, great advances have taken place in the field of computer science and engineering, bringing together the understanding of the scientific and technological foundations of computing, the concepts of software and hardware as well as those of communication technologies. The Department of Computer Science and Engineering endeavors to contribute to these advances through teaching and research in this field. The E magazine attempts to present the Department and its activities for general information to all concerned.

**Dr. S.A.Sahaaya Arul Mary**  
**HoD/CSE**

## *Editor's Message*

It gives us a great contentment to bring it to you the department magazine of CSE. This magazine is a platform to exhibit the innovative ideas of teachers and students. **COMSCEWAVE** presents the achievements of students and the contribution of staffs. We would like to extend our heartfelt gratitude to all those who have contributed to make this a success. We are thankful to all the authors who have sent their articles. We truly hope that the following pages will keep you attached to this magazine.

**K.Mohanappriya AP/CSE**

**Student Representative : Vishnu C  
Sanjay S P**

# Departments Events





**WEBINAR SERIES  
(DURING COVID 19 LOCKDOWN  
PERIOD)**

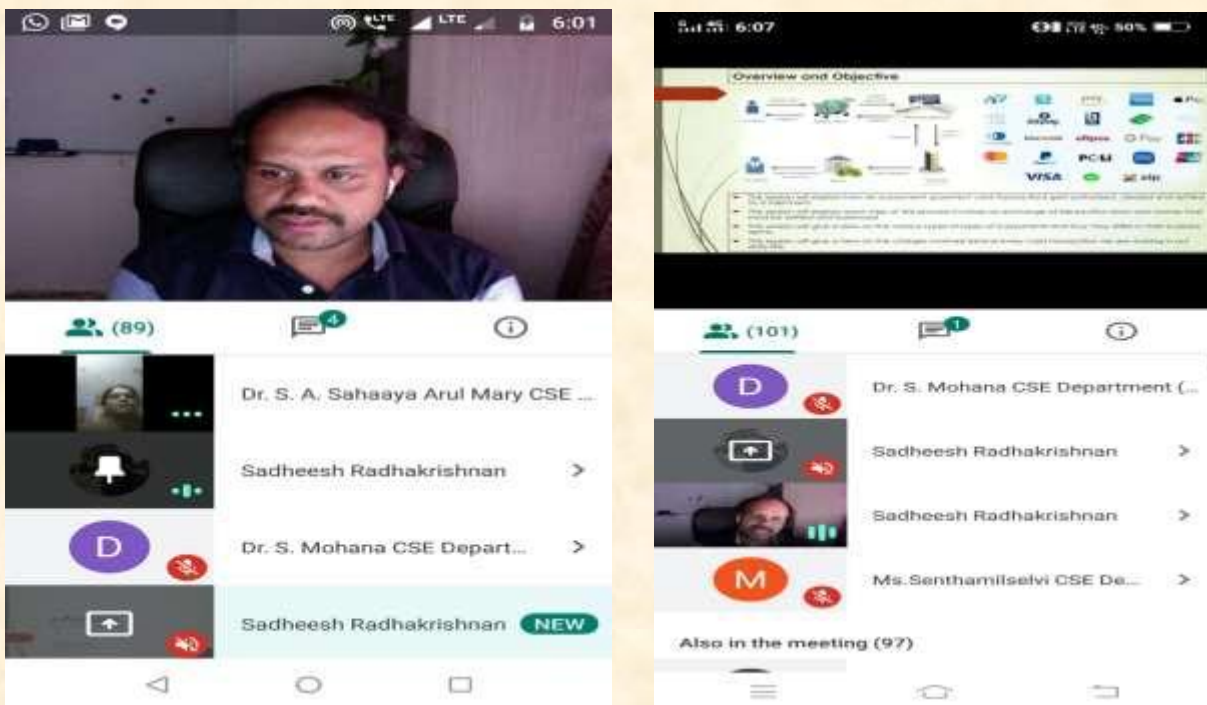
# International Webinar on E-PAYMENTS: A View of Authorisation, Clearing and Settlement

Mr.Sadheesh Radhakrishnan,  
Payment cards SME, Worldspay/FIS,London,UK.

The Department of CSE conducted an International Webinar on 13.07.2020 between 6:00 p.m and 7:30 p.m. The webinar was convened by Dr.S.A.Sahaaya Arul Mary, HoD/CSE and coordinated by Dr.S.Mohana and Dr.R.Senthamil Selvi.

Mr.Sadheesh Radhakrishnan, Payment Cards SME,WorldPay/Fis,London-UK delivered a talk titled “ e-payments: A view of Authorization, Clearing and Settlement.” During the session he explained how an e-payment gets authorized, cleared and settled to a merchant. He also explained each step of the process involving an exchange of transaction data and money that must be settled and balanced. The session also covered various types of e-payments and how they differ in their business terms. He also covered the changes involved behind every card transaction that we are make in our everyday life.

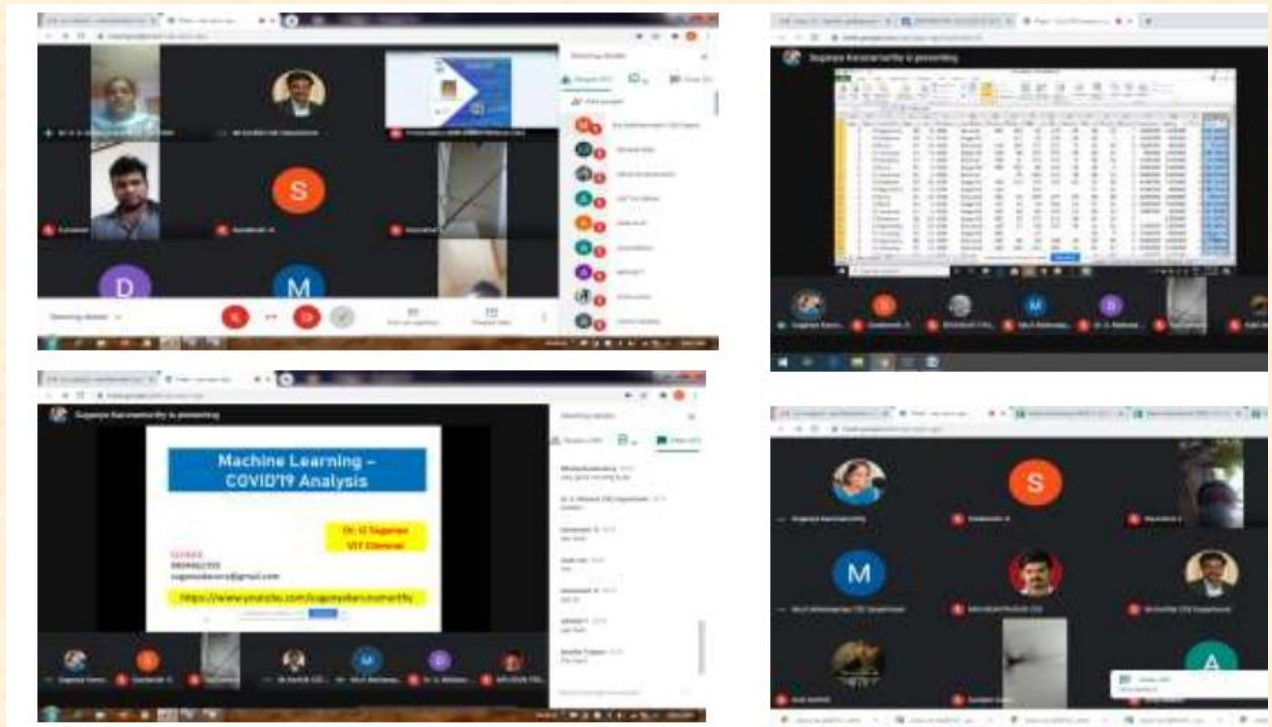
128 participants from various colleges attended the webinar and gave a positive feedback. Some participants raised their queries in the QA session at the end of the lecture. These doubts were cleared by Mr Sadheesh. Earlier Dr.S.A.Sahaaya Arul Mary welcomed the gathering and Dr.R.Senthamil Selvi concluded the meeting with a vote of thanks.



## International webinar *On “Covid’19 Analysis using Machine Learning”*

The Department of CSE organised an International Webinar on 14.07.2020 between 10.00 AM and 11.00 AM. The webinar was convened by Dr.S.A.Sahaaya Arul Mary, HoD/CSE and coordinated by Mr.P.B ArunPrasad , Mr.R.Karthik and Ms.K.Mohanappriya.

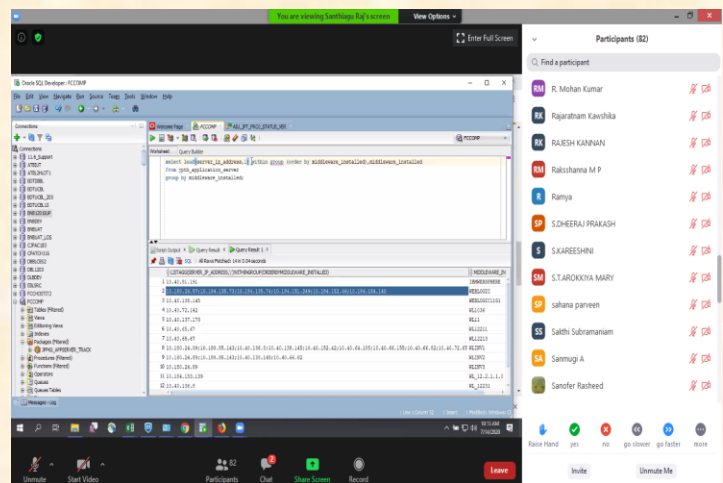
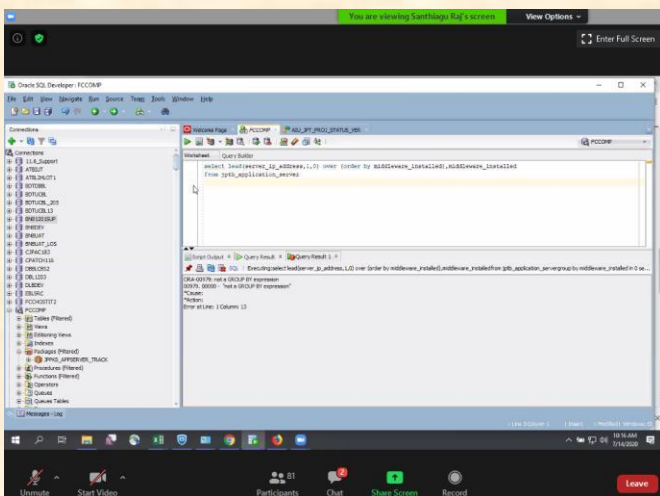
Dr. G. Suganya, Associate Professor, Department of Computer Science and Engineering, VIT University, Chennai and Assistant Director – S/W Development Cell presented a webinar session on **“COVID’19 – Analysis using Machine Learning”** to the webinar participants. The participants were students, faculty members, research scholars from colleges from different states in India. Totally 101 members have participated in this webinar and which in itself made this event a grand success. The main objective of this webinar was to impart in all participants the basics of machine learning concepts and provide hands-on experience in using covid ’19 datasets thus providing them with an opportunity to enhance their relevant skills and become strong in this technology. The Session started with the Introduction of Machine learning and then on to a comparison between ML & Traditional programming. She went on into explaining the comparison between ML, DL & AI. She also covered about the packages available in python and taught how to explore in Jupyter Notebook. Finally she took the participants on a virtual walk through the analysis using ML methods and covid’19 dataset. Her clarifications of the various doubts raised by the participants made the session more interactive. She expressed her thanks to the management, Principal Sir, HoD/CSE and faculty members for providing her this opportunity through this webinar to be among all these participants from various Institutions.



# Technical Webinar on "Dimensification of Data using DBMS

To help the students and faculty enhance their knowledge about Database Management System the Department of Computer Science and Engineering at Saranathan College of Engineering, Trichy organized on 14<sup>th</sup> July 2020, Tuesday between 10.00 am and 11.00 am a technical webinar titled "Dimensification of Data using DBMS". Mr. P. Santhiyagu Antony Raj, Principal Consultant, Financial Oracle Services, Bengaluru presented the session to students, faculty members, research scholars from colleges from different states in India.

He demonstrated various Oracle developer tools and developed the database for a simple application. He also reinforced to the participants the importance of making use of the available free oracle tools. 110 participants participated in the event. The doubt clearing session at the end of the lecture was interactive and lively. Feedback and suggestions were collected from participants through Google Form.



# Webinar on “ Cognitive Cloud Computing

“

The Department of CSE organized a Webinar on 20.07.2020 between 11.00 AM and 1.00 PM. The webinar was convened by Dr.S.A.Sahaaya Arul Mary, HoD/CSE and coordinated by Ms.V.Punitha , Dr.N.Kavitha and Ms.J.SathiaParkavi.

Dr. N. Renugadevi, Assistant Professor, Indian Institute of Information Technology, Trichy, presented a webinar session on “**Cognitive Cloud Computing**” to the webinar participants. The participants were students, faculty members, research scholars from colleges from different states in India. Totally 85 members have participated in this webinar and which in itself made this event a grand success. The main objective of this webinar was to impart in all participants the basics of cognitive cloud computing concepts and its field of application through various examples thus providing them with an opportunity to enhance their relevant skills and become strong in this technology. The Session started with the Introduction of Cognitive Cloud Computing and then explained how it has brought the power of next generation wireless networks to enterprises across the globe. She also covered about the Cryptographic Key Exchange and Encryption algorithms. Finally she took the participants on a virtual walk through the application areas of Cognitive Cloud Computing. Her clarifications of the various doubts raised by the participants made the session more interactive. She expressed her thanks to the Management, Principal Sir, HoD/CSE and faculty members for providing her this opportunity through this webinar to be among all these participants from various Institutions.

**Cognitive Cloud Computing**

Presented by  
Dr. N. Renugadevi  
Assistant Professor  
Department of Computer Science and Engineering  
Indian Institute of Information Technology  
Tiruchirappalli (IITT)  
Tiruchirappalli

20.7.2020

**CRN Model and Cognitive Cycle**

**Characteristics of CR**

- Cognitive capability
- Reconfigurable capability

**Main functions of CR**

- Spectrum Sensing
- Spectrum Decision
- Spectrum Sharing
- Spectrum Mobility

**Cognitive Cycle**

Figure : 3. CRN model

Figure : 4 Cognitive Cycle

**Dynamic Spectrum Access (DSA)**

Figure : 2. DSA in CRN

**Dr. Syed Shahul Hameed**  
In Distributed GKM all the members are sharing their keys, but the centralized server has to combined all their keys and has to find a unique key for all members...in that case again the third party security issues comes

**Dr. Syed Shahul Hameed**  
To get a high security in distributed GKM, shall we use the Blockchain concept?

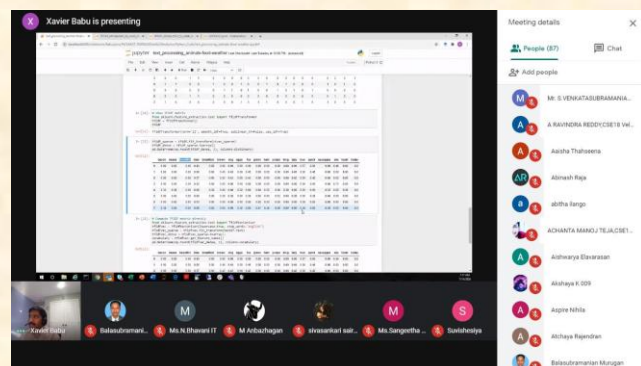
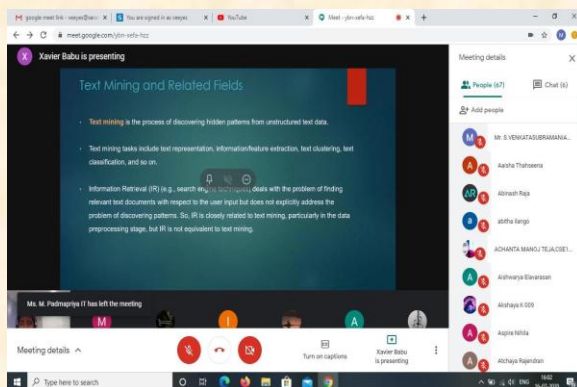
**Mahesh Kotha**  
feedback link mam

**Dr. S. A. Sahaaya Arul Mary**  
We will post feedback link once the session is over..i.e. within 5 min

Title of the webinar	<b>INTRODUCTION TO TEXT MINING</b>
Resource Person details	<b>Mr.Xavier Babu, M.E.,M.B.A, (Ph.D) Senior Director in a cloud-based Digital Marketing Technology at Publicis Groupe, Boston, MA, US 20+ years of experience in I.T. industry</b>
Date of webinar	<b>16-July-2020</b>
Duration	<b>1 hour ( 4 - 5 pm IST)</b>
No. of participants	<b>87( 24 external participants +63 internal participants)</b>
Medium of webinar	<b>Online through Google meet</b>

The resource person was introduced to the participants. The webinar started with the introductory topic of what is mining and terminologies used. Every day, we generate huge amounts of text online, creating vast quantities of data about what is happening in the world and what people think. All of this text data act as an invaluable resource that can be mined in order to generate meaningful business insights for analysts and organizations.

But analysing all of this content isn't easy, since converting text produced by people into structured information to analyse with a machine is a complex task. In recent years though, Natural Language Processing and Text Mining has become a lot more accessible to data scientists, analysts, and developers alike.



# Webinar On Unveiling Unstructured Data

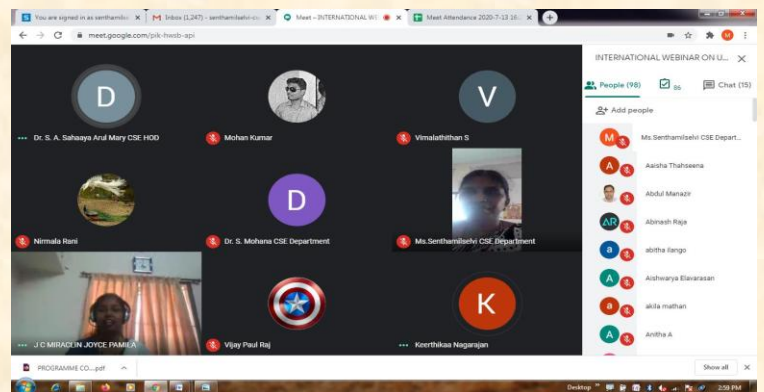
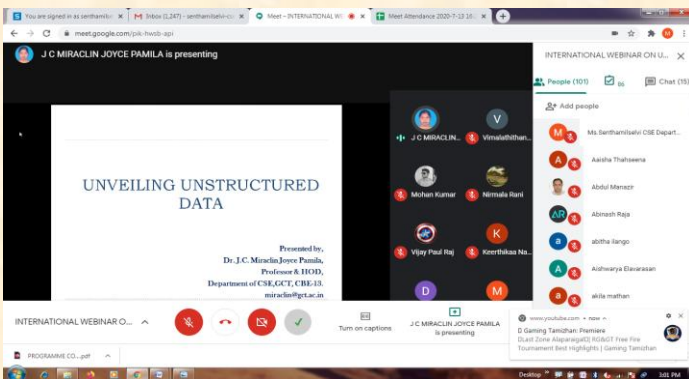
**Dr.J.C.Miraclin Joyce Pamila,  
Professor & Head /CSE, Government college of  
Technology,Coimbatore.**

The Department of CSE conducted an International Webinar on 15.07.2020 between 3:00 p.m and 4:30 p.m. The webinar was convened by Dr.S.A.Sahaaya Arul Mary, HoD/CSE and coordinated by Dr.S.Mohana and Dr.R.Senthamil Selvi.

Dr.J.C.Miraclin Joyce Pamila, Professor & Head /CSE, Government college of Technology, Coimbatore, delivered a talk titled “Unveiling Unstructured Data.”

During the session she explained what unstructured data is and how to handle unstructured data which is coming from various kinds of external resources. She also explained the challenges that are faced when one deals with unstructured data in various domains. The session also covered usage of Natural Language tool kit for Natural language processing. She also explained NLTK platform for building python programs to work with human language data.

138 participants from various colleges attended the webinar and gave a positive feedback. Some participants raised their queries in the QA session at the end of the lecture. These doubts were cleared by Dr. J.C.Miraclin Joyce Pamila. Earlier Dr.S.A.Sahaaya Arul Mary welcomed the gathering and Dr.R.Senthamil Selvi concluded the meeting with a vote of thanks.





# Students Awards and Participations



# *Students Publication in AICTE Sponsored e-Conference on*

## *“CUTTING EDGE TECHNOLOGIES ON ELECTRICAL, COMMUNICATION, EMBEDDED SYSTEM AND SOFT COMPUTING TECHNIQUES ”*

*Conducted by Department of EEE , Saranathan College of Engineering*

<u>S.NO</u>	PRESENTER	TITLE OF THE PAPER
1	Aarthi. M Jusmitha. N Kavya Priyadharshini. S Keerthana. B	Spotting of unsolicited messages and deceptive user on social networks
2	Abirami. V Aruna. C Jothika. S Paven Priah. J P	Blockchain based confidential schema for organized data in distributed servers
3	Anuradha. R Bavya. P Brahadambal. S Deepashree. M	Voice Based medicine prescription in healthcare
4	Aravind Aparajith. K Dhinesh Kumar. S Gowtham Krishna. S Immanuel Irwin. N	Face Recognition based attendance system
5	Harini. R Jeba Mary. G Kaleeswari. M	A simple statistical analysis for security risk management and cyber insurance coverage for cloud services

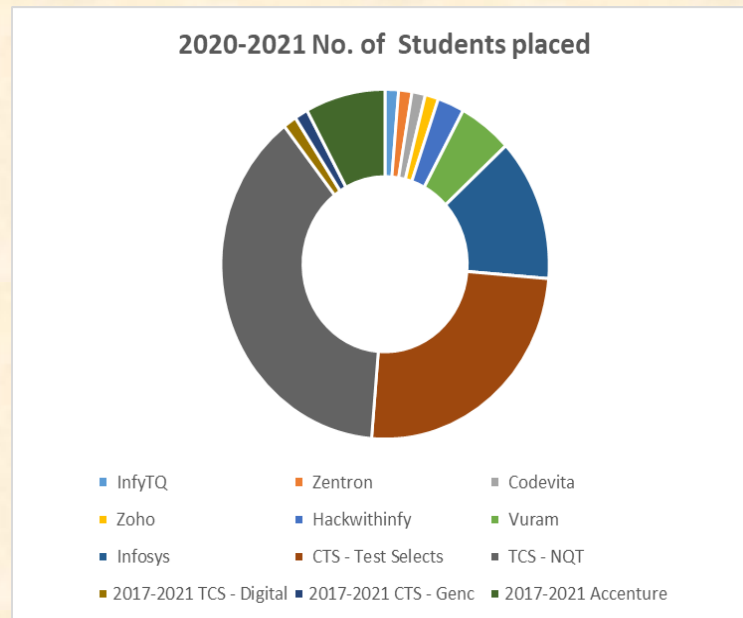
	Keerthika. S	
	Harini. R	
6	Darshna. S	Driver exhaustion detection based on facial nodal
	Fouzia	points
	Ishwarya. S	
	Madhumitha. K	
7	Alagu. S	Secure Docx
	Beryl Susanna. B	
	Bhavadarani. M	
	Keerthana. S	
8	Dhivakar. S	Secured online purchase system
	Dinesh. T	
	Kisore. S	
	Bhuvaneswari. M	Automatic prediction of lung cancer using deep
	Janani. R	learning approach
	Jayashree. S	
	Kasthuri. B	
10	Nandha gopala krishnan.	Voicepad - Java programming by voice
	C	
	Sagul Hameed. M	
	Suhail Yusuff Azees. A	
	Vignesh. K	
11	Naveen. K.S.R	Defense Method for Ddos Attack in IOT Devices
	Nirmal. R	
	Prasanna Kumar. R	
	Raaja Vignesh. C	
12	Nithyasri. K	Enhancing and Evaluating the Privacy of the User in
	Rajalakshmi. G	Bitcoin Transaction

	Revathi. A.U	
	Shalini. S	
<b>13</b>	Pragadeesh. P	Disease Diagnosis System using Machine Learning
	Prasanna Venkatesh. S	Technique
	Sri Gopala Krishnan. R	
	Sriram. S	
<b>14</b>	Prakash. V	An Approach for Job Recommendation by Exploring
	Sanjay. D	Job Portal
	Venkatramanan. A.S	
	Vinoth. M	
<b>15</b>	Rohit Raj	NVEDU
	Thayalan. G.R	
	Vatsala. R	
	Surya Prakash	

## *Our Recruiters*



## Placement Details



### 2020-2021

Students Batch	Company Name	No. of Students placed
2017-2021	InfyTQ	1
	Zentron	1
	Codevita	1
	Zoho	1
	Hackwithinfy	2
	Vuram	4
	Infosys	10
	CTS - Test Selects	19
	TCS - NQT	29
	TCS - Digital	1
	CTS - Genc	1
	Accenture	6

# Faculty Contributions

**Faculty  
Development  
Programme**

**FACULTY PUBLICATIONS**



# Faculty Contributions

## KNOWLEDGE ENRICHMENT THROUGH FDP

S. No	Name of the faculty Member	Designation	Seminar / Conference / Workshop / FDP / Short-term Course	From Dt	To Dt	Organizer	Place
1	Dr.R.Thillaikarasi	Professor	Smart Cities	12-Oct-20	16-Oct-20	AICTE Training and Learning (ATAL) academy	IIT-Dharwad
2	Dr. S.Mohana	Associate Professor	Cyber Security	07-Dec-20	11-Dec-20	AICTE Training and Learning (ATAL) academy	IIT-Bihali
			Sensor,IoT & Machine Learning	1-Jun-20	5-Jun-20	Dept.of CSE	K.J Somaiya College of Engineering , Mumbai (Online)
3	Dr.P.L. Rajarajeswari	Associate Professor	Webinar Series "Learning Experience"	16-Jun-20	29-Jun-20	Infosys	Online mode

4	Mr.S.Venkatasubramanian	Associate Professor	Cloud Technologies	26-Oct-20	30-Oct-20	AICTE Training and Learning (ATAL) academy	Beant College of Engg & Technology
			Vitual Workshop on "Role of Internet of Things in Startup India Mission"	20-Jul-20	25-Jul-20	Dept of CSE	Dadi Institute of Engineering & Technology
			React JS-Bootcamp	13-Jul-20	18-Jul-20	Codegna n IT Solutions	Online mode
			Python MTA Certification Bootcamp	14-Jun-20	20-Jun-20	Codegna n IT Solutions	Online mode
			BlockChain Technology and Cyber Security	9-Jul-20	12-Jul-20	Dept.of CSE	Vikas Group of Institutions
			E-Learning Tools, Methodologies and Content Management	08-Jun-20	13-Jun-20	Dept of CSE in association with CSI	College of Engineering & Technology, Akola
			IoT Applications	01-Jun-20	05-Jun-20	Dept of CSE	Vikas Group of Institutions
			5	Dr.V.Punitha	Associate Professor	Webinar Series "Learning Experience"	16-Jun-20



6			<i>Machine Learning and its Applications (phase-1)</i>	9-Feb-21	15-Feb-21	AICTE-ISTE Sponsored induction programme	R.C. Patel Institute of Technology
			BlockChain Technology	2-Nov-20	6-Nov-20	AICTE Training and Learning (ATAL) academy	IIT-Dharwad
			Webinar Series"Learning Experience"	16-Jun-20	29-Jun-20	Infosys	Online mode
			Sensor,IoT & Machine Learning	1-Jun-20	5-Jun-20	Dept.of CSE	K.J Somaiya College of Engineering , Mumbai(Online)
	<i>Dr.R.SenthamilSelvi</i>	<i>Associate Professor</i>					
7	Mr.T.Sathiskumar	Assistant Professor	Quantum Computing	1-Jun-20	5-Jun-20	Dept. of CSE	Government College of Engineering , Sengipatti(online mode)
8	Mr.M.Anbazhagan	Assistant Professor	Python for DataScience	24-Jun-20	28-Jun-20	Dept of Computer Applications	MITS Mandapalle
9	Ms.K.Mohanappriya	Assistant Professor	Speech Processing using Deep learnig	28-Dec-20	1-Jan-21	AICTE Training and Learning (ATAL) academy	IIT-Dharwad

			DataSciences	7-Sep-20	11-Sep-20	AICTE Training and Learning (ATAL) academy	University of Hyderabad
			DataHandling and DataVisualization using Python	6-Jul-20	10-Jul-20	Dept. of CSE	Government College of Engineering, Tirunelveli(online mode)
10	Ms.J.Sathiaparkavi	Assistant Professor	Internet of Things	1-Sep-20	1-Dec-20	NPTEL-FDP	Online mode
			Internet of Things	14-Dec-20	18-Dec-20	AICTE Training and Learning (ATAL) academy	NIT, Meghalaya
			Internet of Things	30-Nov-20	12-Apr-20	AICTE Training and Learning (ATAL) academy	Sri Sairam Engineering College
			Internet of Things	07-Dec-20	11-Dec-20	AICTE Training and Learning (ATAL) academy	SRM Institute of Science and Technology
			Cloud Technologies	02-Nov-20	6-Nov-20	AICTE Training and Learning (ATAL) academy	Government Engg College, Gujarat

			Internet of Things based Green energy systems	14-Sep-20	19-Sep-20	Dept of CSE	BV RajuInstitute of Technology, Telegana
			IoT and Wireless Sensor Networks	27-Jul-20	31-Jul-20	Dept. of ECE	Brindhavan College of Engineering
			Artificial Intelligence applications through Machine learning	14-Jul-20	18-Jul-20	Dept. of CSE	Balaji Institute of Technology & Science(online mode)
			DataHandling and DataVisualization using Python	6-Jul-20	10-Jul-20	Dept. of CSE	Government College of Engineering / Tirunelveli(online mode)
			Quantum Computing	1-Jun-20	5-Jun-20	Dept. of CSE	Government College of Engineering / Sengipatti(online mode)
11	Mr.A.T.Barani Vijayakumar	Assistant Professor	DataSciences	20-Oct-202	24-Oct-20	AICTE Training and Learning (ATAL) academy	Ramakrishna Mission

12	Mr.R.Mohankumar	Assistant Professor	FEP on Database Management Systems through INFYTQ platform	3-Aug-20	7-Aug-20	Infosys	Saranathan College of Engineering (Online mode)
13	Mr.P.DineshKumar	Assistant Professor	FEP on Database Management Systems through INFYTQ platform	3-Aug-20	7-Aug-20	Infosys	Saranathan College of Engineering (Online mode)
14	Mr.R.Karthik	Assistant Professor	FEP on Database Management Systems through INFYTQ platform	3-Aug-20	7-Aug-20	Infosys	Saranathan College of Engineering (Online mode)
15	Mr.P.B.Arunprasad	Assistant Professor	DataSciences	5-Oct-20	9-Oct-20	AICTE Training and Learning (ATAL) academy	Central University of Tamilnadu
			IOT with Machine learning and Artificial Intelligence	14-Sep-20	18-Sep-20	Dept of CSE	NIT, Warangal
			FEP on Database Management Systems through INFYTQ platform	3-Aug-20	7-Aug-20	Infosys	Saranathan College of Engineering (Online mode)

			Embedding Research & Development in Academic Environment	01-Jun-20	03-Jun-20	Dept of EEE	Sir M Visvesvarya Institute of Technology
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## *Publications of Faculty*

S. No	Authors Name	Paper Title	Scopus/SCI/A1	Impact Factor	Journal Name	Published Year	ISSN	Volume	Issue	Pages
1	Dr. S. A. Sahaaya Arul Mary	Privacy preservation of data using modified rider optimization algorithm: Optimal data sanitization and restoration model	SCI	1.546	Expert Systems	2021	1468-0394	-	-	-
2	Dr.R.Thillaikarasi	A Trust Based Dual Reinforcement Q-Routing protocol to detect misbehaving nodes in WMNs	ESCI	---	International Journal of Future Generation on Communication and Networking	July 2020	2233-7857	Vol.13	No. 3	2194–2210
3	Dr.R.Thillaikarasi	Adaptive DSR to mitigate packet dropping attacks in WMNs using cross layer metrics	SCIE	4.594	Journal of Ambient Intelligence and Humanized Computing, Springer	Accepted March 2021	1868-5145	-	-	-

4	Dr.S.Mohana	Privacy preservation of data using modified rider optimization algorithm: Optimal data sanitization and restoration model	SCIE	1.546	Expert Systems	2021	1468-0394	-	-	-
5	Dr.S.Mohana	Detection of Unwanted Messages and Fraudulent User Identification on Social Network	Scopus	0.03	Anal of the Romanian Society for cell Biology	Feb 2021	1583-6258	5	2	1041-48
6	Dr.R. SenthamilSelvi	Detection of Unwanted Messages and Fraudulent User Identification on Social Network	Scopus	0.03	Anal of the Romanian Society for cell Biology	Feb 2021	1583-6258	5	2	1041-48
7	Mr.T.Sathish Kumar	Prediction of Aircraft using Deep Learning in Remote Sensing Images	UGC Approved Journal	5.87	Journal of Emerging Technologies and Innovative Research	2021	2349-5162	8	1	-

*NPTEL certifications by faculty:*

The following staff members have successfully completed NPTEL course

Mr.R.Karthik - Demystifying Networking

Ms.K.Mohanappriya- Introduction of Operating Systems

Mr.A.T.Barani Vijaya kumar - Machine Learning

Ms. J.Sathiaparkavi - Internet of things

Mr.P.Dineshkumar - Demystifying Networking

Mr.P.B.Arunprasad - Demystifying Networking



# TECHNICAL ARTICLES

## *Trending Technologies: Introduction*

- Technology is constantly updating at such a rapid pace that it seems it might be faster than light! A technology or a programming language that is making the rounds this week may be obsolete by the next few days! As more and more funds are invested in research and development, computer scientists and professionals are constantly tweaking and improving existing technologies to get the most out of them.
- As a result, a new programming language, library, patch, or plug-in gets released almost every hour. To keep up with this crazy pace of development, you have to keep learning the latest technology concepts. We will look at the most trending technologies that you must learn. Learn about the top hottest skills to learn to get a job.



## Technical jokes



```
#Am profesinal progrmer  
#Comic Sans best fnt  
var bEsTnAmE = "hello wrld"  
var MyLiSt = [2,4,6,8]  
def sAyBeStName():  
    print bEsTnAmE  
    print MyLiSt[1] #wil outpt '2'  
  
#pls hire me, am vry profesinal
```



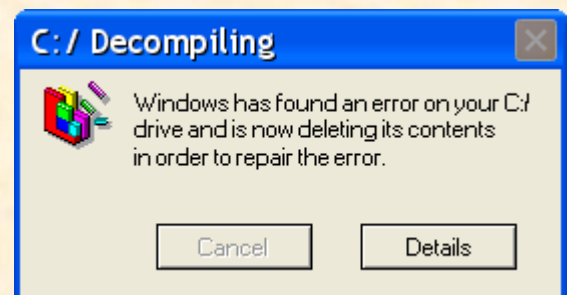
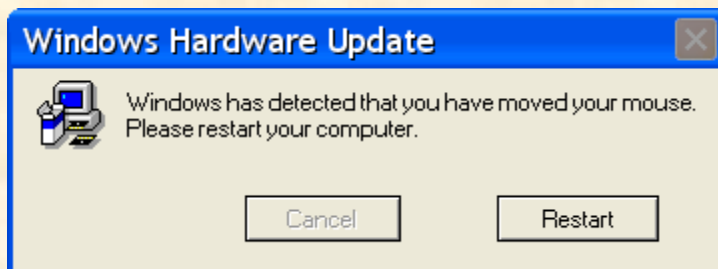
- Two bytes meet. The first byte asks, "Are you ill?" The second byte replies, "No, just feeling a bit off."



- ~~~~~
- Eight bytes walk into a bar. The bartender asks, "Can I get you anything?"  
"Yeah," reply the bytes. "Make us a double."
- ~~~~~
- Q. How did the programmer die in the shower?  
A. He read the shampoo bottle instructions: Lather. Rinse. Repeat.
- ~~~~~
- How many programmers does it take to change a light bulb?  
None - It's a hardware problem
- ~~~~~

- Why do programmers always mix up Halloween and Christmas?  
Because Oct 31 equals Dec 25.
- ~~~~~
- There are only 10 kinds of people in this world: those who know binary and those who don't.
- ~~~~~
- A programmer walks to the butcher shop and buys a kilo of meat. An hour later he comes back upset that the butcher shortchanged him by 24 grams.
- ~~~~~
- "Knock, knock."  
"Who's there?"  
very long pause....  
"Java."
- ~~~~~
- Programming is 10% science, 20% ingenuity, and 70% getting the ingenuity to work with the science.

### *Funny Error message*



# Bluejacking

Bluejacking is used for sending unauthorized messages to another Bluetooth device. Bluetooth is a high-speed but very short-range wireless technology for exchanging data between desktop and mobile computers and other devices.

Bluetooth has a very small range so only when a person is within 10 (highly location dependent) meters distance of a bluejacker and his Bluetooth enabled in his device, does bluejacking happen. Bluejacking involves sending unsolicited business cards, messages, or pictures. The bluejacker discovers the recipient's phone via doing a scan of Bluetooth devices. He would then select any device, craft a message as is allowed within the body of the phone's contact interface. He stays near the receiver to monitor his reactions.

The messages are anonymous to the recipient as only the mobile name and model number of the bluejacker's phone are displayed in the message. The only exception to the 10 meters distance is the involvement of a laptop, which can be done within a 100-meter range of the recipient. Although there is an infringement of territory of the recipient, bluejacking is not illegal, as it does not access the resources of the recipient device and does not steal anything either.

## Steps To Bluejack A Device

1. Bluejacker opens his contacts and creates a new contact.
2. He does not save a name and number rather he saves the message in place of the contact and does not need to save a number (It is optional if he wants to send a business card, he can save the number).
3. He would scan for nearby Bluetooth devices.
4. He would then share the contact with the Bluetooth device connected.
5. The message will reach the recipient and he will have no clue as to who had sent the message



## 5G Wireless Technology

The search engine major Google has already confirmed that smartphone userbase has surpassed desktop userbase. If we go back a few years, the maximum RAM in a smartphone was in a few MBs only but now, even the smartphone configurations are competing with personal computers. It is evident that smartphone usage without the internet is barely minimum. With the increased dependency on IoT, internet speed plays a pivotal role.

The majority of companies think of future needs, innovations, services that could give a better life to mankind. Keeping this in mind, 5G thoughts were rolled a decade back even before the 4G technology was in place. Of course, the 4G has been a base to implement 5G. We will discuss about countrywide 5G rollout further in this article.

**5G simply refers to the next and newest mobile wireless standard based on the IEEE 802.11ac standard of broadband technology.** Rather than faster Internet connection speeds, 5G aims at a higher capacity than current 4G LTE, allowing a higher number of mobile broadband users per area unit, and allowing consumption of data quantities in gigabyte per second. This would make it feasible for a large portion of the population to consume high-quality streaming media many hours per day on their mobile devices, also when out of reach of wifi hotspots. 5G research and development also aim at the improved support of machine to machine communication, also known as the Internet of things, aiming at a lower cost, lower battery consumption, and lower latency and to increase the security and connectivity for a large community.



**Thank You**