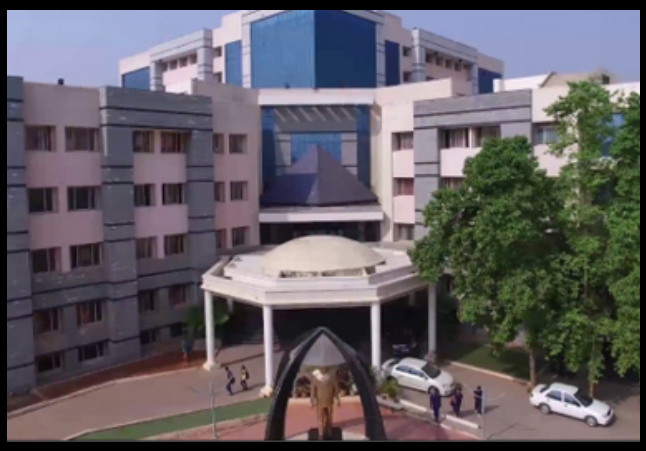
RAMAIAH
Institute of Technology



AN INSIGHT INTO DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

VOISE MAGAZINE

2018-2019

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I feel overwhelmed by the great effort and venture taken by the VoISE students' community and faculty for holding up to the targets set according to the vision mission of the department along with a remarkable performance shown in the academics.

Hope all these achievements will provide a strong courage and determination to achieve great heights in the feild of Information Science and Technology .

I feel contented to share the knowledge and experience in the world of Information Science.

HEAD OF

DEPARTMENT

VOISE FACULTY COORDINATORS

"VOISE is an opportunity for students and faculty to use this common forum to exchange their innovative idea. Students can develop their multidimensional skills by participating in the departmental activities.

"Leadership is an action. It is not a position." In this context, our students are in action as volunterrs to this forum and bringing innovation every year in the form of workshops, seminars, technical talks etc for the growth of overall personality development.

We wish all the students to utilize the context of this forum to build a successful career and spread the leadership and enterpreneurship awareness among themselves and juniors.."

ABOUT VOISE

VoISE is a student forum of the department of Information Science & Engineering which was established in the year 2000. It majorly comprises of the second and third year students who coordinate with faculty and department to carry out various activities and events in out college. VoISE provides an opportunity to the students to improve their leadership skills, and allows them to work as a team which in turn ploishes their interpersonal skills and enbales the development of their multidimensional skills. VoISE organizes events in association with IEE CIS and Google DSC club. Every year VoISE also releases the department magazine which provides an insight of the department activities and achievements.

VISION AND MISSION OF THE INSTITUTION

VISION

To be an Institution of International Eminence, renowned for imparting quality technical education, cutting edge research and innovation to meet global socio- economic needs

MISSION

Ramaiah Institute of Technology shall meet the global socio-economic needs through:

1. Imparting quality technical education by nurturing a conducive learning environment through continuous improvement and customization.
2. Establishing research clusters in emerging areas in collaboration with globally reputed organizations.
3. Establishing innovative skills development, techno-entrepreneurial activities and consultancy for socio-economic needs.

VISION AND MISSION OF THE DEPARTMENT

VISION

To evolve as an outstanding education and research centre of Information Technology to create high quality engineering professionals for the betterment of society.

MISSION

- To provide a conducive environment that offers well balanced Information Technology education and research.
- To provide training and practical experience in fundamentals and emerging technologies.
- To nurture creativity for overall personality development.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Become competent information technology professionals with continuous progress in career or learning.

PEO2: Productively engage with society by practicing research or entrepreneurship.

PEO3: Function effectively as professionals in a team environment or individually.

PROGRAM SPECIFIC OUTCOMES

Program Specific Outcomes of Information Science and Engineering:

PSO1: Apply Mathematical models, programming paradigms, and software development practices to solve real-world problems.

PSO2: Adopt computing and communication models for developing IT solutions.

PSO3: Acquire data engineering skills to develop intelligent systems in a multidisciplinary environment.

PROGRAM OUTCOMES

Engineering Graduates will be able to:

*Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

*Problem analysis: Identity, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

*Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations.

*Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

*Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

*The engineer and society: Apply to reason informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

*Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

*Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

*Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

*Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

*Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

*Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

"Science is about knowing, Engineering is about doing"

- Henry Petroski

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Link: https://ieeexplore.ieee.org/document/8776834
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DOI:10.1109/ICCES45898.2019.9002156.

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First Online: 12 Nov 2018

EVENTS

1. **ANDROID BASICS WORKSHOP 1**

- Date : 23.02.2018
- Venue : Intel CoE Lab
- Attendees : 42

The workshop began with VR Kartik explaining the various basics of Java and XML and clearing some wrong notions which were in the minds of the attendees as the prerequisite of the workshop was. And shortly after that the students were accompanied by Mr. Vijaya Kumar BP (HOD Dept of ISE) who motivated the students on always looking forward and learning new things. Most of the time in the workshop was spent in warming up and prepping the attendees for the forthcoming workshops as a good command of XML and Java was necessary. Apart from that the difference between the two should be clear.Keeping this in mind major time was spent on interaction and foreseeing that the fundamentals taught are actually put into the correct use by very basic tasks and simple exercises.

2. DSC ORIENTATION

- Date : 25.02.2019
- Venue : DES Hi-Tech Seminar Hall
- Attendees : 390

The Orientation began with some words of wisdom by Mr. Vijaya Kumar BP (HOD Dept of ISE) where he explained the various activities under DSC in the upcoming Academic year and importance of projects, workshops, and skill-sets needed for corporate life sectors and society.

The enthusiasm and energy among the newcomers to the DSC was unparalleled as the hall seemed smaller to accompany the huge audience present there even when many started sitting on the stairs. Finally the DSC lead kickstarted the event by diving deep into the fundamentals and events that happened and that will happen.

He was followed by V R Kartik and Hemant Joshi as they shed light on workshops DSC will be facilitating i.e. Explore ML and Applied CS which made a deep impact on the crowd and made them eager for in-depth knowledge.

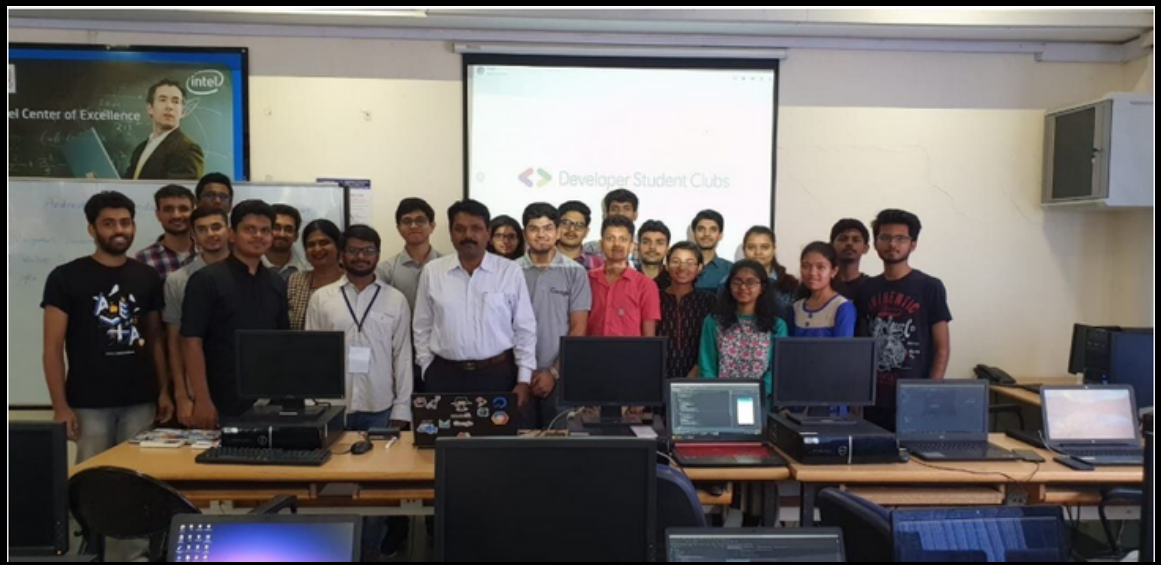
The session was concluded by a short but exhilarating question-answer session by Rohit Nagraj which showcased the inquisitiveness of the fresh faces in the crowd, which included some students of higher semesters too.

3. ANDROID BASICS WORKSHOP 2

- Date : 02.03.2019
- Venue : Intel CoE Lab
- Attendees : 40

In the workshop creation of a simple calculator that can add, subtract, multiply or divide depending upon the input from the user. The program was such that it would ask the user to choose the desired operation. Options 1, 2, 3 and 4 are valid. Two numbers are taken and an if...elif...else branching was used to execute a particular section.

The enthusiasm and energy among the attendees to the workshop was unparalleled as the lab witnessed a totally interactive and knowledgeable session with questions being thrown from all ends but at the same time all were getting answered patiently till the time each and everyone in the room was clear with respect to doubts.



4. ANDROID BASICS WORKSHOP 3

- Date : 16.03.2019
- Venue : Intel CoE Lab
- Attendees : 38

Firstly the basics of Activity Lifecycle in Android and other basic concepts were made clear that as a user navigates through, out of, and back to your app, the Activity instances in your app transition through different states in their lifecycle. The Activity class provides a number of callbacks that allow the activity to know that a state has changed: that the system is creating, stopping, or resuming an activity,or destroying the process in which the activity resides.

As the workshop unfolded many aspects such as Testing, debugging, using support libraries,Testing UI,Triggering, scheduling and optimizing background tasks, Storing data using SQLite, Permissions, Performance and Security were taught in-depth.Even the permissions and publishing section was also taught which equipped each and every single one to make, test run and even upload their own apps.

5. GOOGLE CLOUD STUDY JAM

- Date : 30.03.2019
- Venue : Hi-Tech Seminar Hall
- Attendees : 100

We organized the first ever DSC-RIT Google Cloud Platform Study JAM at the Hi-Tech Seminar hall from 10:00 AM to 06:00 PM.
The event received an astounding response, with over 100 people showing up for the first session.

The first session involved an introduction to GCP by Nimish. The core fundamentals of Google Cloud were discussed, and the various umbrellas (IaaS,PaaS,SaaS) under it.
In the second session, Shyam talked about various features of google cloud, such as App Engine, Compute Engine, Kubernetes Engine etc.

Third session encapsulated the concept of projects and IAM in GCP by Gaurav, where people learned about permissions and the project structure. This was followed by a talk by Satyam, who lectured about Regions and zones, and Compute Engine. We began with the lab sessions. We did face some initial problems with the labs, due to faulty internet connection. However, this issue was resolved in the second session, when the location was changed to ISE Lab 2.
In our first lab session, we had Tanisha and Abhay demonstrate how to create a Virtual Machine (VM) using both the ways; ie. directly by simply clicking the create VM button, and also by using the cloud shell. Even though they both did an incredible job, students struggled to understand all the particularities in the first go, but this was quickly resolved as we moved on. More experience using the dashboard helped resolve this.

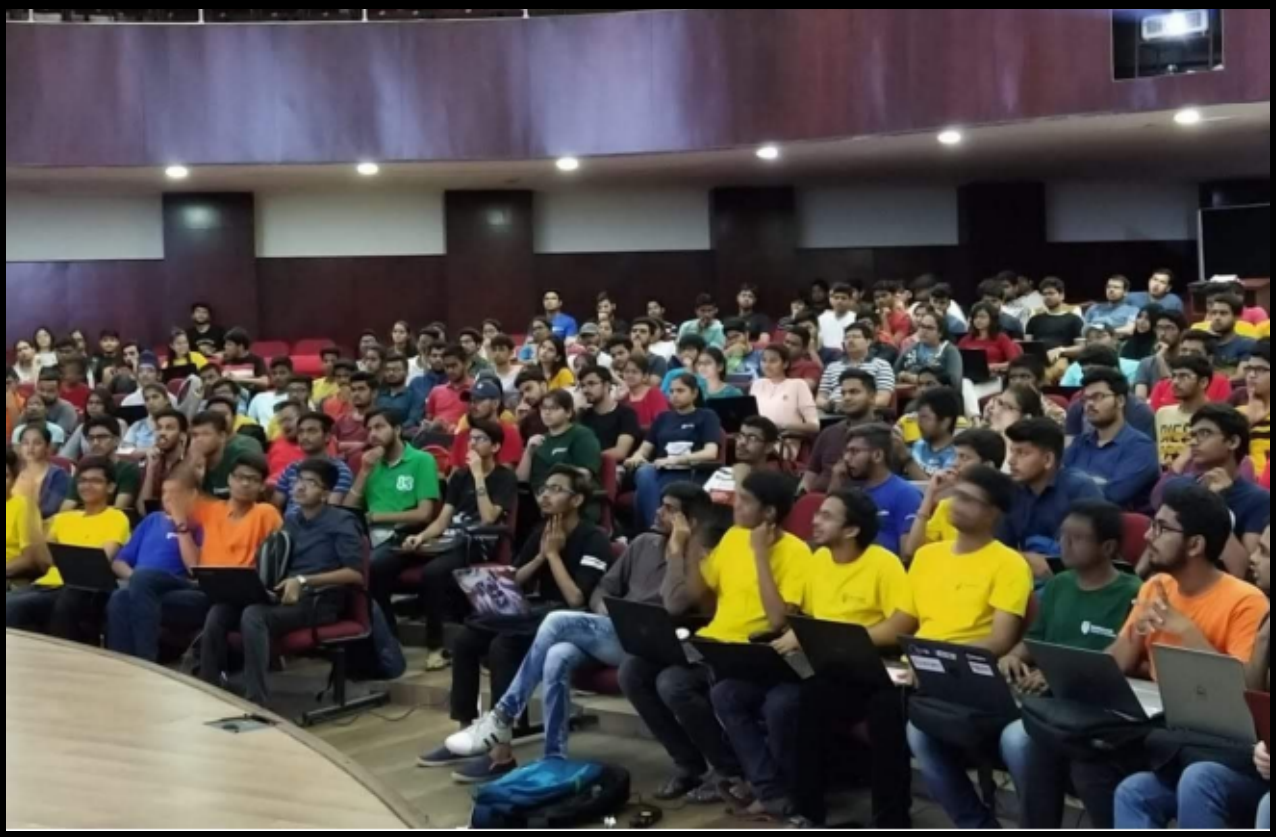
The second lab session was conducted by Rohit and Ishank where the specifications of GCP was practically demonstrated. They created a cloud bucket and transferred a local file to it. This is when people started getting the hang of what needs to be done. The second lab was followed by a lunch break for about 40 mins. The third lab was done by Mohit, who demonstrated a tool named GCP Marketplace where he introduced how an application developer can use the features of GCP without going into all the intrinsic details and can get a basic application in production. The option to scale the applications remain with the user along with other benefits of GCP Marketplace.

The fourth lab was carried out by Karthik, which entailed choosing between the various storage services provided by GCP according to user requirements and specifications. Here's where the students understood the necessary details about persistent disks and scalability.

We then had an interactive session by Piyush to do with Docker and its technicalities. The main concept was discussed in a very appealing manner, with some add-ons. We even had a docker lab attached with this session, to gain the essential hands on experience.

Meer then discussed about how GCP can be integrated with Mobile apps, and demonstrated working on his e-commerce app Habibi Mart. We successfully ordered Tata Salt using the app. People appreciated how well the app was developed and integrated.

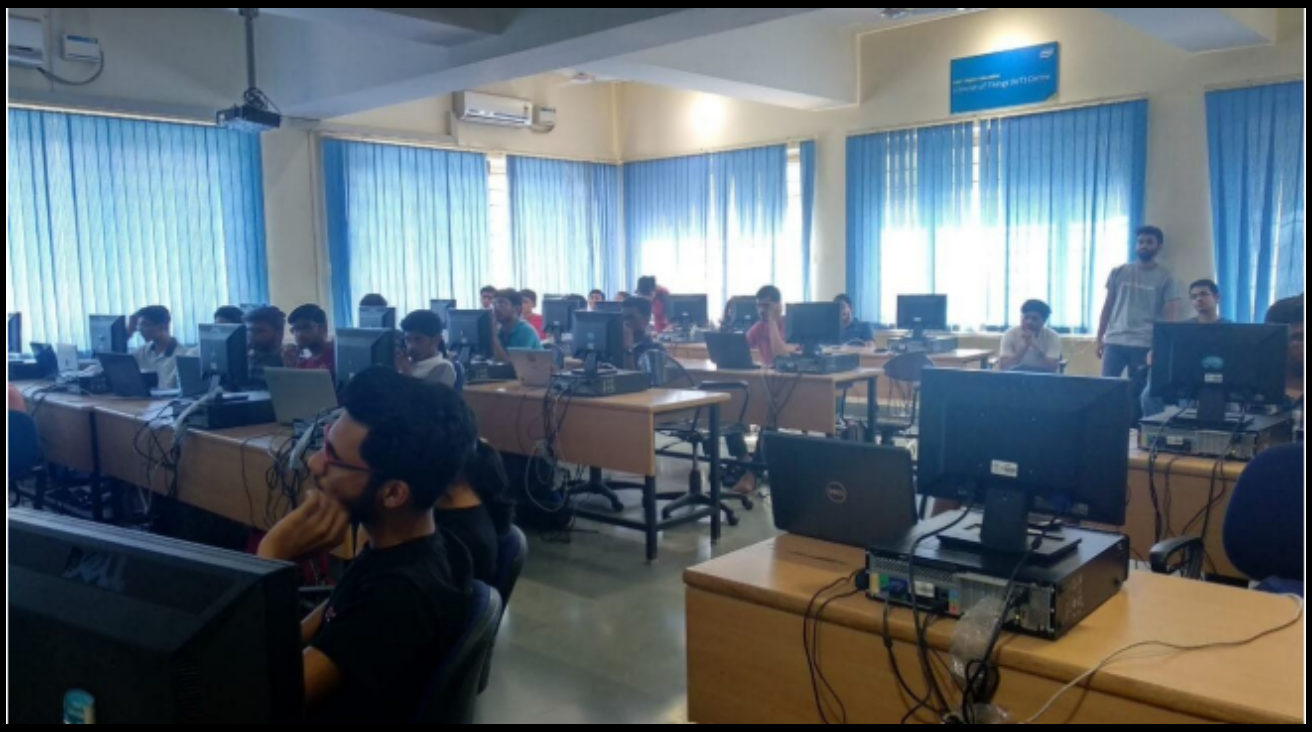
The entire GCP study lab was then summarized, and it concluded with a thunderous applause. We are awaiting the feedback to improve on ourselves, as to how better study jams could be organized in the near future.



6. ANDROID BASICS WORKSHOP 4

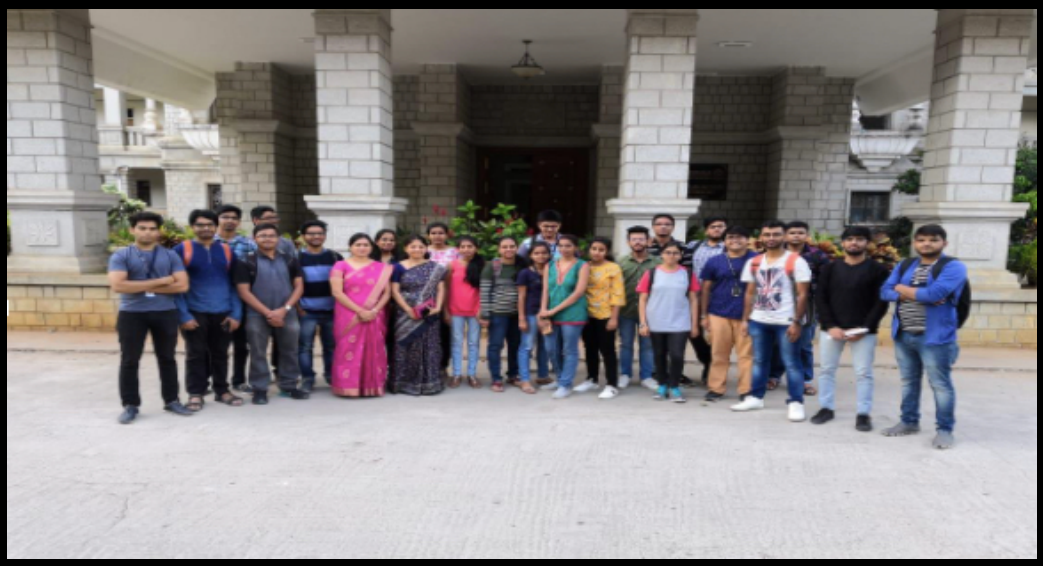
- Date : 25.05.2019
- Venue : Intel CoE Lab
- Attendees : 35

In the concluding session dynamic data manipulation with firebase real time database was explored in depth. The Firebase Realtime Database was a cloud-hosted database. Data is stored as JSON and synchronized in real time to every connected client. The main objective was to achieve the goal that when cross-platform apps are built with iOS, Android, and JavaScript SDKs, all of the apps, clients must share one Realtime Database instance and automatically receive updates with the newest data. The session was concluded by a simple Q/A session and some light comedy.



Industry Visit to ISRO-URSC
01st November, 2018

Students and faculty of Information Science & Engineering Dept., Ramaiah Institute of Technology, Bangalore visited ISRO-URSC on 01-11-2018 as a part of Industry visit. This visit was planned in order to study the nature of work carried out at ISRO and thereby enhance the knowledge of recent developments. ISRO scientist highlighted the working of satellite building and launching process. The spacecrafts are used for providing applications to various users in the area of Communication, Navigation, Meteorology, Remote Sensing, Space Science and interplanetary explorations. URSC has a unit called Laboratory for Electro Optics System (LEOS), which is situated in Peenya, Bengaluru and is mainly responsible for research, development and production of Sensors for ISRO programmes. Totally 38 students and 2 faculties
(Dr. Naidila Sadashiv and Shruthi G) visited ISRO-URSC and gained knowledge on the same.



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- **Lingaraju G M**, H. S. Anupama, Raj V. Jain, Revanur Venkatesh, Rupa Mahadevan, N. K. Cauvery, "Implementing and Analyzing Different Feature Extraction Techniques Using EEG-Based BCI", Recent Findings in Intelligent Computing Techniques, 2018.
  Link: https://www.springerprofessional.de/en/implementing-and-analyzing-different-feature-extraction-techniqu/16251148

- **Lingaraju G M**, Raghavendra SI, Shekar sivasubramanian *"Supervised Learning Based System for Classification of Wikipedia Articles",* International Journal of Applied Engineering Research, Volume 12, Issue 12, 2018.
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  DOI: https://doi.org/10.1007/978-981-10-8797-4_27 Volume 771

- Kumaraswamy S, **Mydhili K Nair** (Feb 2019), "Bin packing algorithms for virtual machine placement in cloud computing: A review", in International Journal of Electrical and Computer Engineering 9(1):512
  DOI:10.11591/ijece.v9i1.pp512-524

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- **Naresh E**, Niranjanamurthy M, Bhawna Nigam, Niveditha N.M , “Efficient Implementation of Refund Process in Online Shopping Industry Internal Tool-OMS” International Journal of Recent Technology and Engineering (IJRTE) ISSN 22 Volume-7 Issue-6, March 2019

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STUDENT EXTRACURRICULARS

Extracurricular Achievements - July 2018 - June 2019						
Sl. No	**Name of the Student/Name of the Team**	**Name of the Award**	**Name of International Institution/Organisation from where the award has been received**	**Address of the Agency giving Award**	**Year of receiving award**	**S/N/I**
1	Karthik, - 1MS16IS109	Intercollege, 1st prize, Prize	Code Fury Hackathon, India	UVCE, Bangalore, Karnataka	22nd Sept 2018	N
2	Yash - 1MS16IS120	Intercollege, 1st prize, Prize	Code Fury Hackathon, India	UVCE, Bangalore, Karnataka	22nd Sept 2018	N
3	Vikas - 1MS16IS114	Intercollege, 1st prize, Prize	Code Fury Hackathon, India	UVCE, Bangalore, Karnataka	22nd Sept 2018	N
4	Shyam - 1MS16IS029	Intercollege, 1st prize, Prize	Code Fury Hackathon, India	UVCE, Bangalore, Karnataka	22nd Sept 2018	N
5	Karthik - 1MS16IS109	National Level Contest, 3rd Place, Prize	India Skill Competition,	Delhi	2nd October 2018	N
6	Karthik - 1MS16IS109	AWS Alexa, Skill Challenge	National Level Preliminary Round, India	National Level	19th September ,2018	N
7	Vikas - 1MS16IS114	AWS Alexa, Skill Challenge	National Level Preliminary Round, India	National Level	19th September ,2018	N
8	K S Lohit - 1MS16IS143	AWS Alexa, Skill Challenge	National Level Preliminary Round, India	National Level	19th September ,2018	N
9	Karthik - 1MS16IS109	NA	Siemens Hackathon,	BMS College, Bangalore, Karnataka	11-12th October, 2018	N
10	Hemanth - IMS16IS137	NA	Siemens Hackathon, BMS College	BMS College, Bangalore, Karnataka	11-12th October, 2018	N

ACHIEVEMENTS

12	Vikas N S - 1MS16IS114 (Photo)	Google Mini,	Google Action Challenge,	Reva Universisty, Bangalore, Karnataka	13th October, 2018	S
13	Subhojit - 1MS16IS102	Google Mini,	Google Action Challenge,	Reva Universisty, Bangalore, Karnataka	13th October, 2018	S
14	Vaibhav - 1MS16IS110	Google Mini,	Google Action Challenge,	Reva Universisty, Bangalore, Karnataka	13th October, 2018	S
15	Prathima - 1MS16IS056	Google Mini,	Google Action Challenge,	Reva Universisty, Bangalore, Karnataka	13th October, 2018	S
17	Aditya Rao - 1MS16IS131	Build an Autonomous Place,	AuvsiSuas,	Maryland USA,	25th June, 2018	I
18	Roopak - 1MS15IS095	Build an Autonomous Place,	AuvsiSuas,	Maryland USA,	25th June, 2018	I
19	Varun Khanna - 1MS16IS112	Runners up	Inter Collegiate Tournament	PES University, Bangalore, Karnataka	9th -13th October 2018	S
20	Shaswat- 1MS15IS109	Mastercode, Coding and Hackathon Contest	Cognizant's	Bangalore, Karnataka	August 11th,2018	N
21	SahanaHegde - 1MS15IS098	SkyLine , Step into Spotlight, Singing Competition, Winner	State Level, Awarded	Bangalore, Karnataka	October,2018	S
22	Subhojit - 1MS16IS102	Ingenious Hackathon,	PES University	Bangalore, Karnataka	November, 2018	S
23	Vaibhav - 1MS16IS110	Ingenious Hackathon,	PES University	Bangalore, Karnataka	November,2018	S
24	Biswajit - 1MS16IS018	Ingenious Hackathon,	PES University	Bangalore, Karnataka	November,2018,	S
25	Vaibhav - 1MS16IS110 (PHOTO)	Challenger award in Rackathon	Online	Bangalore, Karnataka	Dec, 2018	N

ACHIEVEMENTS

26	Sadanand - 1MS16IS082	Challenger award in Rackathon	Online	Bangalore, Karnataka	Dec, 2018	N
27	Subhojit- 1MS16IS102	Challenger award in Rackathon	Online	Bangalore, Karnataka	Dec, 2018	N
28	Piyush– 1MS16IS	Smart Odissha Hackathon	College of Engineering and Technology (CET), Techno Campus, Kalinga Nagar, Ghatikia, Bhubaneswar	Odisha, Bengal	November 13-15, 2018	N
29	Shyam - 1MS16IS029	Smart Odissha Hackathon	College of Engineering and Technology (CET), Techno Campus, Kalinga Nagar, Ghatikia, Bhubaneswar	Odisha, Bengal	November 13-15, 2018	N
30	Biswajit - 1MS16IS018	Smart Odissha Hackathon	College of Engineering and Technology (CET), Techno Campus, Kalinga Nagar, Ghatikia, Bhubaneswar	Odisha, Bengal	November 13-15, 2018	N
31	Dhriti - 1MS16IS023	(Horse Riding Competition)	EQUESTRIAN FEREATION OF INDIA	National Level, Bangalore	December, 2018	N
32	Aditya Gupta - 1MS15IS007	HEDERA18 Hackathon	the Hedera Hashgraph	Honk Kong.	October, 2018	I
33	Jay Sinha - 1MS15IS044	HEDERA18 Hackathon	the Hedera Hashgraph	Honk Kong.	October, 2018	I
34	Hemant Joshi - 1MS16IS137	HEDERA18 Hackathon	the Hedera Hashgraph	Honk Kong.	October, 2018	I
35	Biswajit Mohanty - 1MS16IS018	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
36	Shyam I V - 1MS16IS029	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
37	Yash - 1MS16IS082	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
38	Karthik - 1MS16IS109	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N

ACHIEVEMENTS

39	Rohit – 1MS17IS094	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
40	Vikas - 1MS16IS120	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
41	Vivek - 1MS16IS118	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
42	Roopak - 1MS15IS095	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
43	Naagarakshita - 1MS16IS044	First Prize under Smart India Hackathon	CMRIT	Hyderabad, India	2nd ,3rd March, 2019	N
44	Subhojit Mohanty - 1MS16IS102	Women Tech	Vellore Institute of Technology, University,	Tamilanadu, India	13th March, 2019	N
45	Vaibhav - 1MS16IS110	Women Tech	Vellore Institute of Technology, University,	Tamilanadu, India	13th March, 2019	N
46	Sadanand - 1MS16IS082	Women Tech	Vellore Institute of Technology, University,	Tamilanadu, India	13th March, 2019	N
47	Subhojit Mohanty - 1MS16IS102	Best Business Proposal Award, InnovBuzz,	VSSU University	Odisha, Bengal	15th Feb, 2019	N
48	Karthik - 1MS16IS109	Best Business Proposal Award, InnovBuzz,	VSSU University	Odisha, Bengal	15th Feb, 2019	N
49	Vaibhav - 1MS16IS110	Best Business Proposal Award, InnovBuzz,	VSSU University	Odisha, Bengal	15th Feb, 2019	N

ACHIEVEMENT

50	Sadanand - 1MS16IS082	Best Business Proposal Award, InnovBuzz,	VSSU University	Odisha, Bengal	15th Feb, 2019	N
51	Vybhav Jain - 1MS16IS144	CODEWIN	PES University	Bangalore, Karnataka	March, 2019	S

ACHIEVEMENTS

LAUGH OUT LOUD

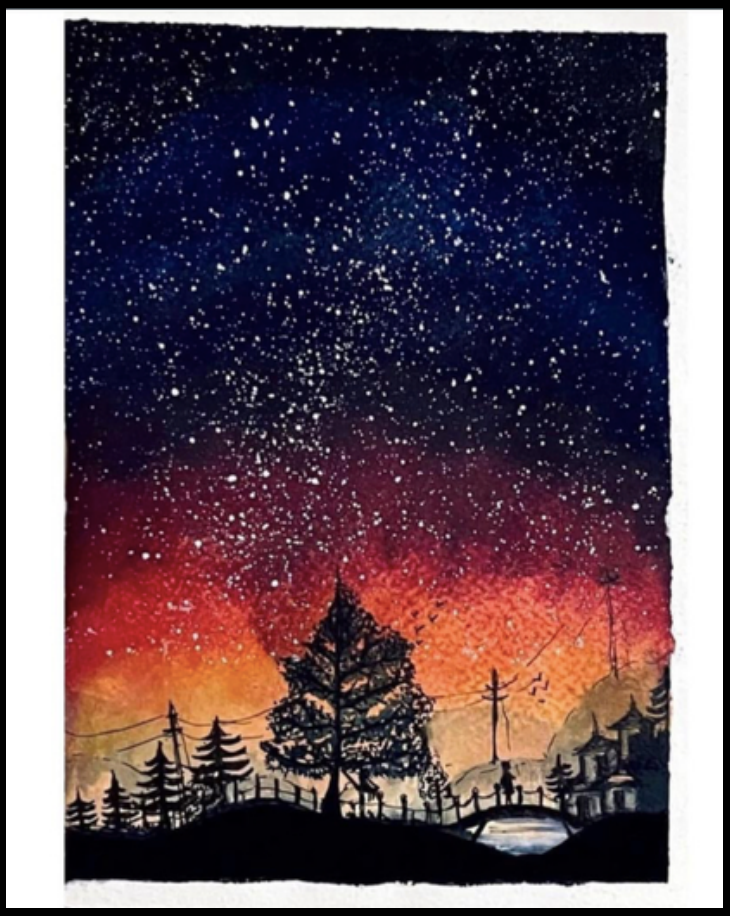
Q: 0 is false 1 is true right?

A:1

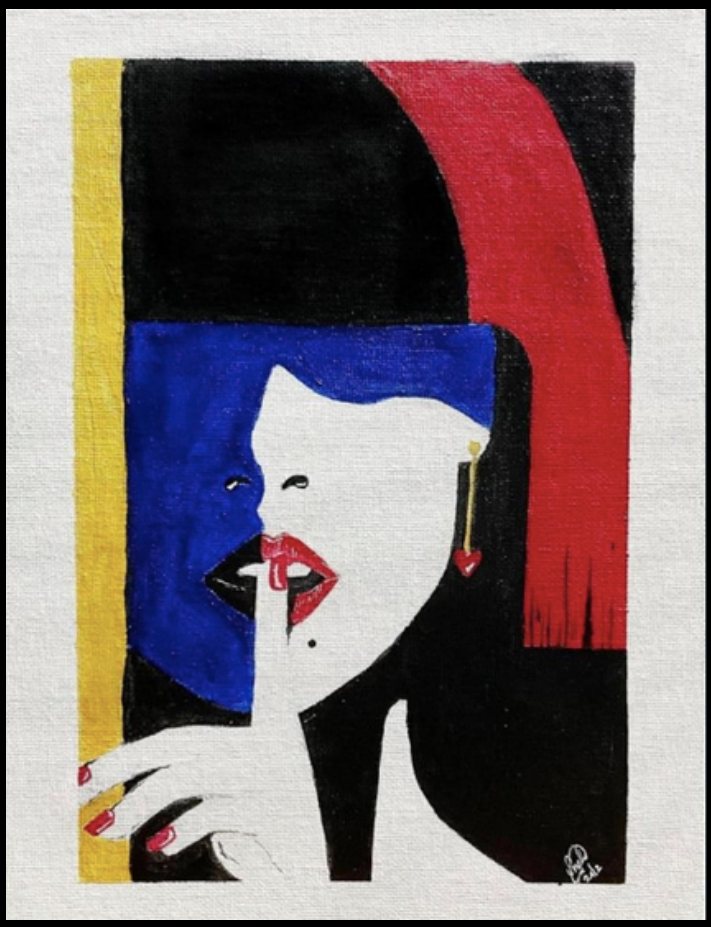
Why are assembly programmers always soaking wet?
Because they work below c-level

why programmer have to wear glasses ?

Because they can't C#

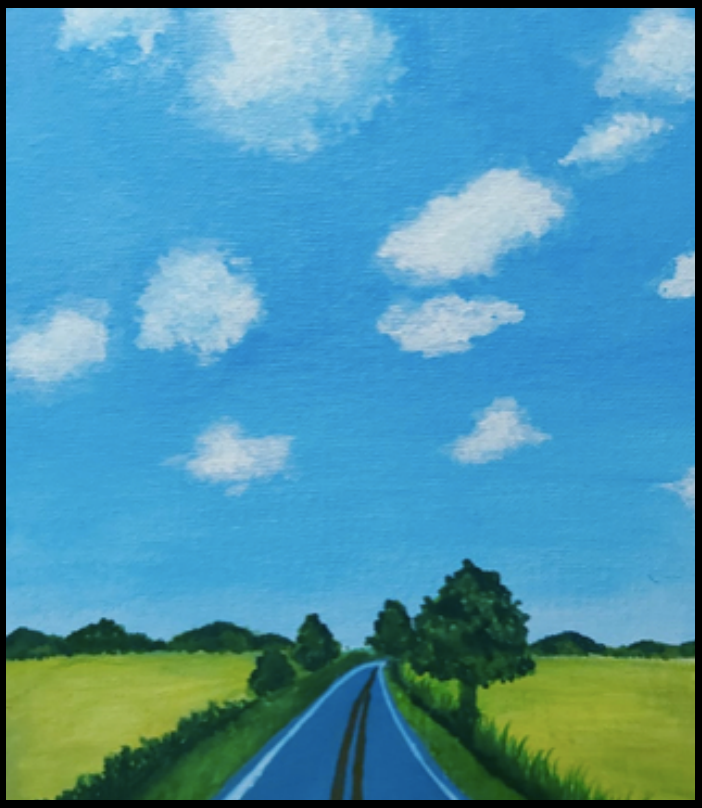


1MS17IS122-SWATHI S



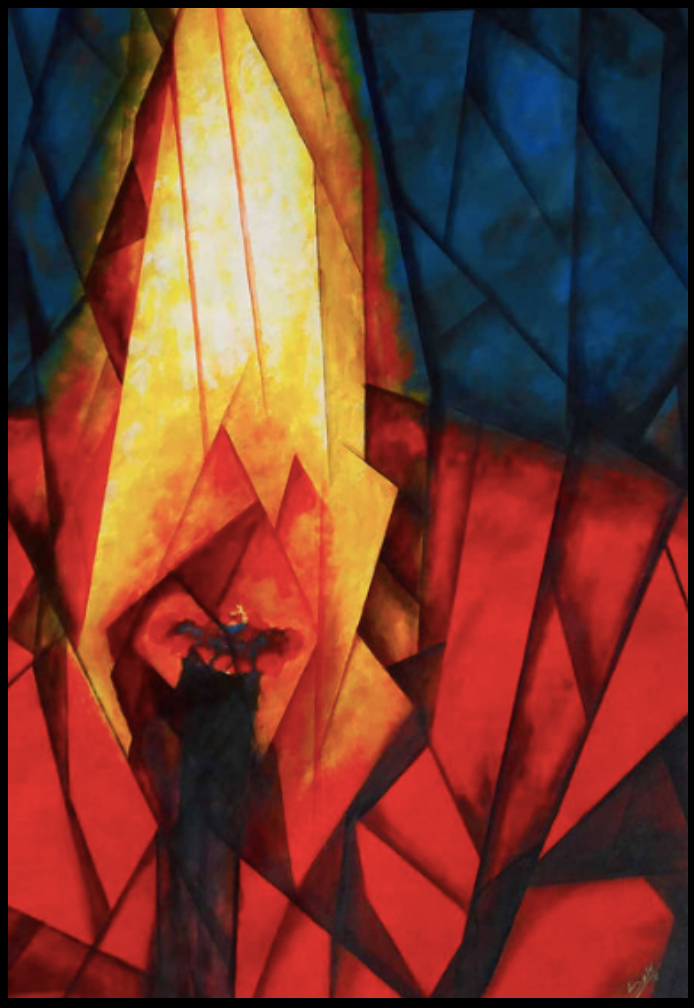
1MS17IS112-SNEHA C H

ART CORNER



SUCHINTA SATHISH-
1MS17IS118

ROHAN S-1MS17IS095

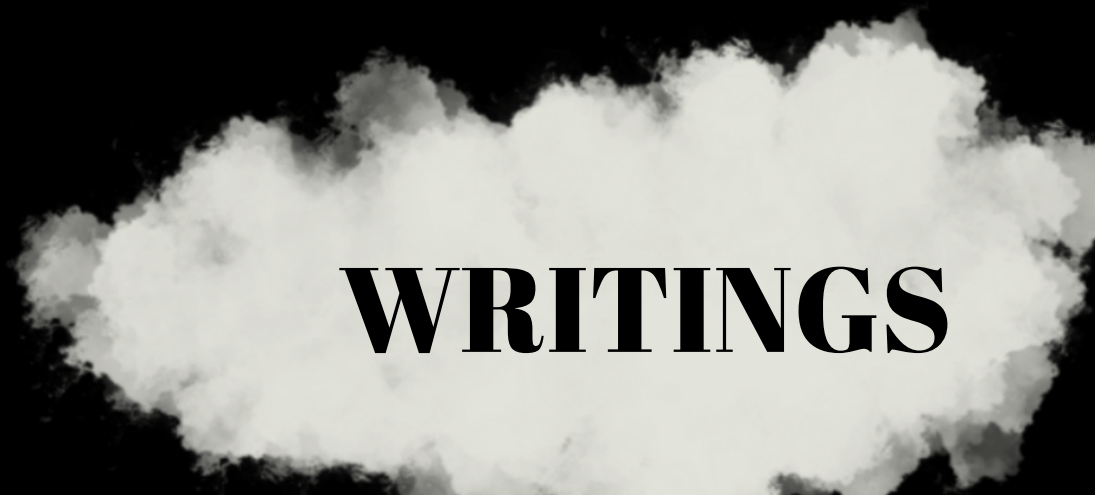


ART CORNER

NOT EVERYTHING YOU LOSE IS A LOSS

I was the type of person,
That held onto things too tight,
Unable to release my grip,
When it no longer felt right,
And my fingers would all ache,
I always thought that holding on,
Was worth the pain it takes,
My heart no longer knew,
Then one day something happened,
I dropped what I had once held dear,
But my soul became much lighter ,
Instead of filled with fear,
And it taught my heart that some things,
Aren't meant to last long.

SHISHIR N -1MS17IS108



ಪ್ರೇಮಿ

ಬಾನಂಚಲಿ ಮುಳುಗುತಿಹ ಭಾನುವೂ ಕೇಳಿದ...
ಅವಳೆಂದು ಬರುವಳು ಎಂದು!?
ಬಾನಂಗಳದಿ ಹಾರುತಿಹ ಹಕ್ಕಿಗಳೂ ಕೇಳುತಿವೆ...
ಅವಳೆಂದು ಬರುವಳು ಎಂದು!?
ಕಣ್ಣಂಚಿನಲಿ ಜಿನುಗುತೀಹ ಕಂಬನಿಯೂ ಕೇಳುತಿದೆ...
ಅವಳೆಂದು ಬರುವಳು ಎಂದು?
ಕಾರ್ಮೋಡ ಕವಿದಿಹ ನನ್ನೀ ಮನವೂ ಮೌನದಿ ಕೇಳುತಿದೆ...
ನೀನೆಂದು ಬರುವೆಯೋ ಎಂದು!?
ಬಹು ಬೇಗ ಬಂದು ಬಿಗಿದಪ್ಪಿಬಿಡು ನನ್ನ
ಸಹಿಸಲಾಗುತಿಲ್ಲ ಈ ವಿರಹವ....

VISHNU B-1MS17IS134

WRITINGS

Importance of Artificial Intelligence in the modern World

It is evident that over the years, there has been a spectrum of developments in the technology sector. The involvement of artificial intelligence at every step is has turned out to be amazing. It made so many jobs automated, reducing human effort. It has made everyone believe that there is yet more to come in the future.

Artificial intelligence has proved to be a path-breaking experience in every field and not just technology. Online retailers in the fashion industry have readily invested a good sum of money in AI while the others plan to do so in the next 24 months, as stated by recent surveys.

Now the question is why is the e-commerce industry showing their interest in Artificial Intelligence? The following points will help you get a better understanding of this question:

RECEIVING PERSONALIZED EXPERIENCE- Amongst the entire benefits of AI, one is that it imparts personalized experience to its customers. It allows online retailers to not only add personalized pages to their websites but also provide personalized recommendations to their visitors. This ensures to raise sales and at the same time make good communication with the visitors. The recommendations do store a record of what the people previously like or what they purchase and other than that it also shows a few more complimentary products that the customers would probably show interest in if not buy. So AI in the retail business is on the right track doing wonders.

Machine learning and deep learning are the trending topics worldwide with their applications being brought into effective action not only in business but in all the major segments. Taking both into consideration, there are several courses offered where you could learn both or either of them. Many institutes offer great online as well as regular courses on Machine learning and Deep learning.

-**Article by your story**

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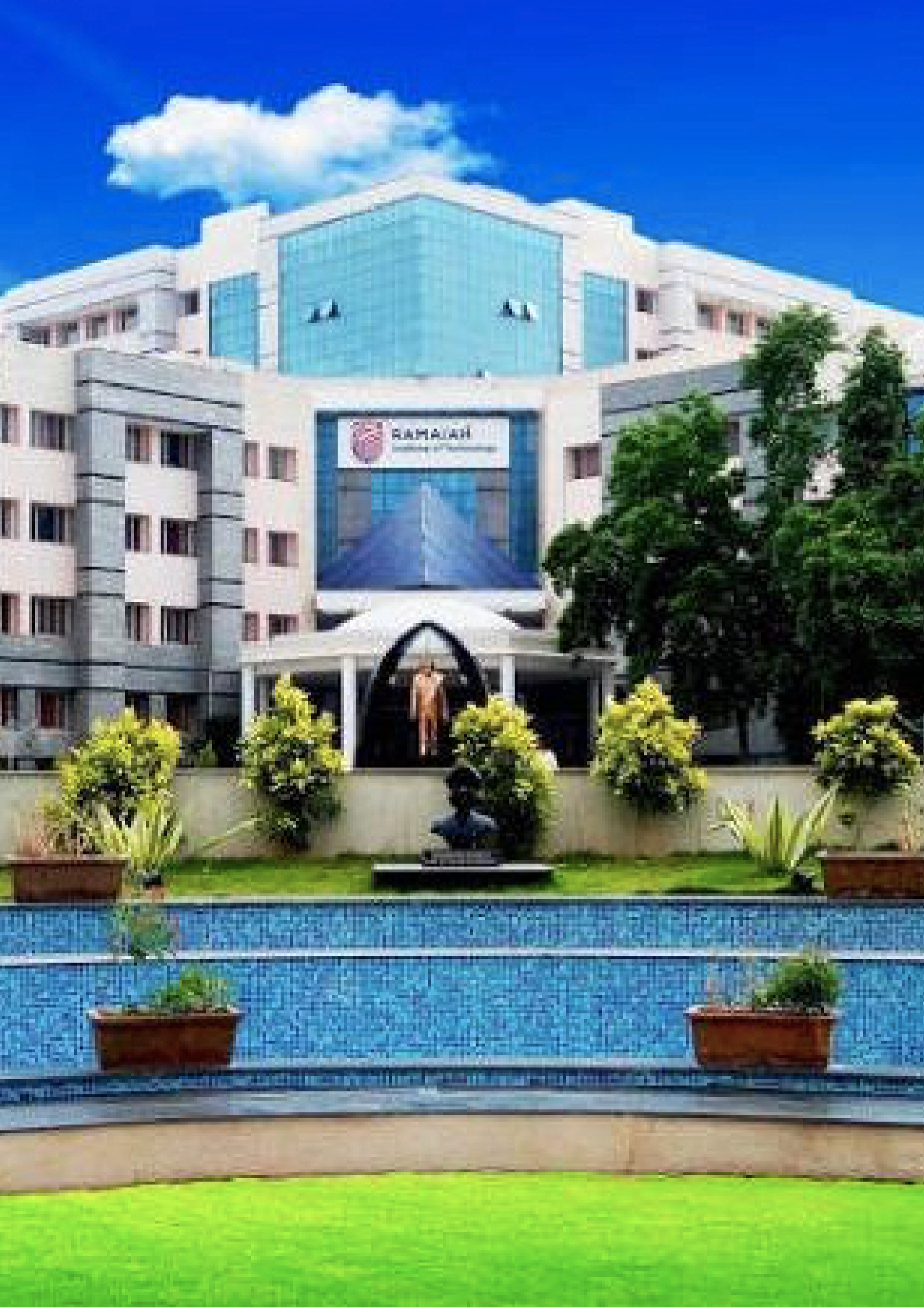
On behalf of the department of information science and engineering , the editorial team thanks the Head of the department , professors , faculty , staff ,and students for all the support and encouragement to bring out the magazine for the year 2018-2019 .


RAMAIAH