



**RAMAIAH**  
Institute of Technology

LIBRARY

DISSEMINATION  
**ANALYSIS**

STORA  
DISCIPLI

LIFE CYCLE

COLLECTION  
USAGE

ACCESS CLASSIFICATION

SYSTEM RETRIEVAL

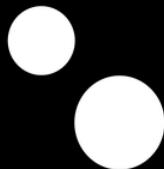
**INFORMATION SCIENCE**

MANIPU

PROTECTIO



**VoISE**



AN INSIGHT INTO THE  
DEPARTMENT OF  
INFORMATION SCIENCE  
AND ENGINEERING

**Magazine**

**2020-2021**



## Dr. Yogish H K

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Dept. of Information Science and  
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Bangalore - 560054, Karnataka,  
India.

I whole heartedly congratulate the VoISE students' community and faculty for achieving the targets set forth based on the vision and mission of the department along with the societal community outreach activities shown implicitly in the academics.

Hope this experience and achievements will provide a strong confidence with clarity to face the challenges across the world professionally in the areas of Information Technology.

I am happy to disseminate the aggregated achievements and activities towards the knowledge enhancement that pave a path for the Information society.

H E A D   O F  
D E P A R T M E N T

# 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 volunteers 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 entrepreneurship 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 our college. VoISE provides an opportunity to the students to improve their leadership skills, and allows them to work as a team which in turn polishes their interpersonal skills and enables 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

Department of Information Science and Engineering shall create high quality IT Engineering Professionals for the betterment of society by :

1. Providing education through an ever-improving curriculum and effective pedagogy techniques.
2. Encouraging extra and co-curricular activities to develop their overall personality along with technical skills.
3. Collaborating with industry and academia for strengthening research, innovation, and entrepreneurship ecosystem.

# PROGRAM EDUCATIONAL OBJECTIVES(PEO)

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: Identify, 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 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

# EVENTS

## 1. IEEE Webinar on Advance IT Technologies

Department in association with IEEE, CIS Bangalore Chapter conducted a series of 4 sessions on advanced IT technologies from 23rd May to 27th May, 2020. Cognitive Computing and Fundamentals of Machine Learning session was handled by Dr. B P Vijaya Kumar, Professor and Head. Working with Hadoop Ecosystem was handled by Dr. Siddesh G M. Medical Image Retrieval and for Clinical Decision-Making session was given by Dr. Megha P Arakere. Dr. Sumana M delivered a session on Big Data Analytics in Healthcare. Shashidhara H S demonstrated iOS App Development using Swift. Faculty and students from across colleges have participated in the session.

## 2. Demystify Design Thinking in Multidisciplinary Engineering: IT Approaches

Department in association with IEEE, CIS Bangalore Chapter and Computer Society of India organized a weeklong online session on Design Thinking to immerse participants into the world of innovation thinking of systematic process of tackling relevant social problems and designing creative solutions. It also aimed at exposing the participants with the state-of-the-art perspectives, ideas, concepts and solutions related to the design and execution of innovation drive projects using design thinking problems. This event was conducted from 27th July to 1st August, 2020. Resource persons were from across IT organizations such as Mr. Bipin Pradeep Kumar, Director, Sesovera Tech. Pvt. Ltd, Dr. Arakalagud Ramprasad, Director, Ramaiah Public Policy Centre, Mr. Lokesh Sapre, Program Director, Yash Technologies. Mr. Aditya Garg, Agile Testing Alliance, L&T Infotech Ltd, Dr. Mohith Kumar Goel, Associate Vice-President, Info-edge India Ltd., Dr. Nanda Kumar B S, Associate Professor, Ramaiah Medical College and others. Faculty and Students from across the college have participated and reaped the benefits.

### 3. Foundation Course on Scripting Languages

The event was organized by Dr. Mydhili K Nair, Dr. Sumana M, Mrs. Savita K Shetty, Mrs. Pushpalatha M N, Mrs. Evangeline D and Mrs. Bhuvaneshwari Patil, faculty members in the department of ISE, RIT from 24th August to 28th August, 2020. The objective of this training is to provide hands-on basics of Python, HTML and JavaScript which serves as a pre-requisite to Scripting Languages Laboratory and machine learning Laboratory. The sessions were conducted online and E-certificates were awarded to participants who submit the assignments. This event received good feedback from the students. The topics covered were: Introduction to HTML, Basics of JavaScript and validation using JavaScript, JavaScript event handling, Introduction to Python, Python basic libraries and file handling, Introduction to Flask.

### 4. Faculty development Program on Trends in Data Science

One-week online Faculty development Programme on Trends in Data Science 2020 was organized by MCA, CSE, ISE departments from 13th to 17th July 2020. The topics were covered as part of FDP are Dockers and Containers, Cyber security, Data Storage Technologies, Machine Learning: Challenges and Applications, Natural language Processing: Tool transformer, and also hands on sessions were carried on topics of Distributed shared storage technologies, Deep learning Algorithms and Applications of Data Science. Resource persons are from eminent industries like Amazon Web Services (AWS), Bangalore, Microfocus Pvt. Ltd., Bangalore, C-DAC, ACTS, Pune, HCL Technologies, Bangalore, Visteon Corporation, Bangalore, Nouveau Labs Pvt. Ltd. Bangalore and HPE, Bangalore. Total of 303 participants benefited from this event.

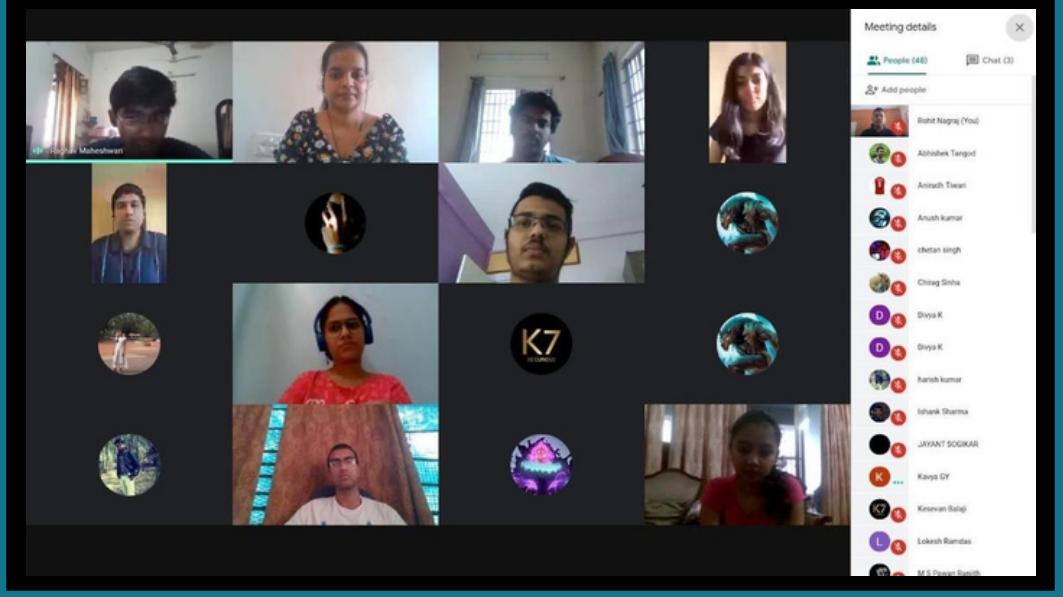
### 5. 6 days National Level Hands-on E-workshop on Basics of C Programming and Python for Beginners

The workshop was conducted to provide complete knowledge of C language with a glimpse of Python programming. It started on 24th Aug 2020 and went on till 29th Aug 2020. Students were able to develop logics which helped them to write programs and knowing applications in C. The workshop was organized for students and faculty of various colleges throughout the state. Quizzes were conducted towards the end to assess the learning from the workshop. The sessions were handled by Ms. Lincy Mathews, Ms. Prathima M N, Ms. Sunitha R S and Mr. Koushik S.

# GOOGLE DSC

## 1. Ideathon

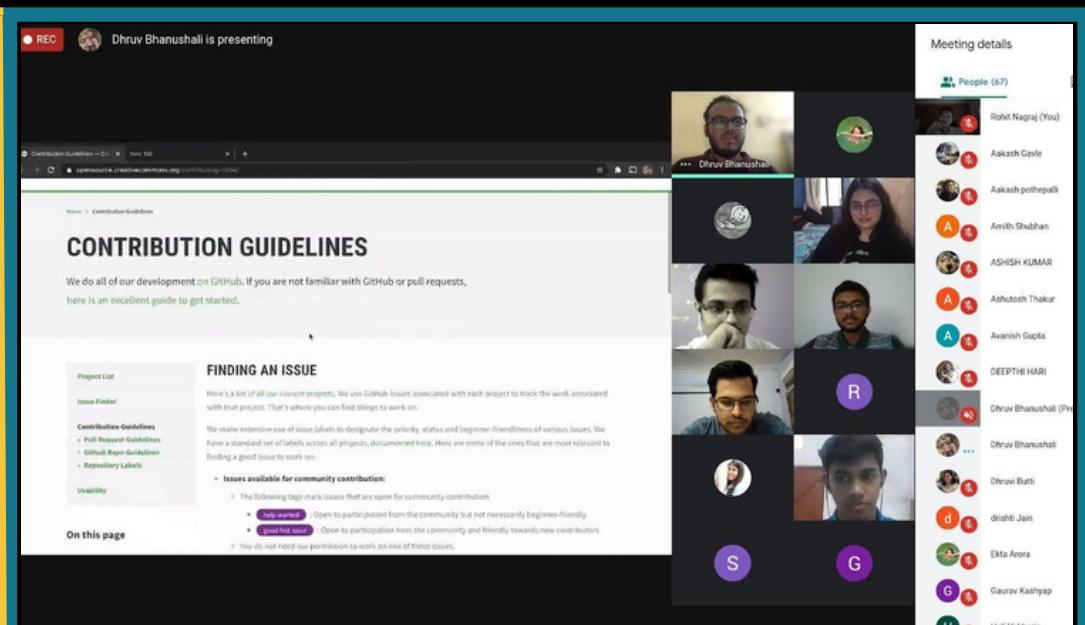
Ideathon was conducted on 30th August 2020 with 76 participants. It was a short, intensive, brainstorming event to generate fresh solutions to existing challenges.



challenges in the world. Participants were asked to work in teams and use innovative ideation practices such as design thinking to brainstorm possible solutions. Participating teams presented their ideas for 5mins (+5 mins Q&A) in the First Evaluation round and the top 5 teams were selected to present in the Second Evaluation round for 3mins (+3mins Q&A) and were judged on Innovativeness, Impact, Feasibility, Tech Stack, Presentation etc.

## 2. I Love Open Source

The workshop was conducted on 4th Oct 2020 with over 43 participants. The event focused on providing guidance on the importance of open-source contribution,



and how to find projects based on your interest and skill set. Creative Commons community maintainers were invited to give a talk on this topic.

### 3. Bug Bounty

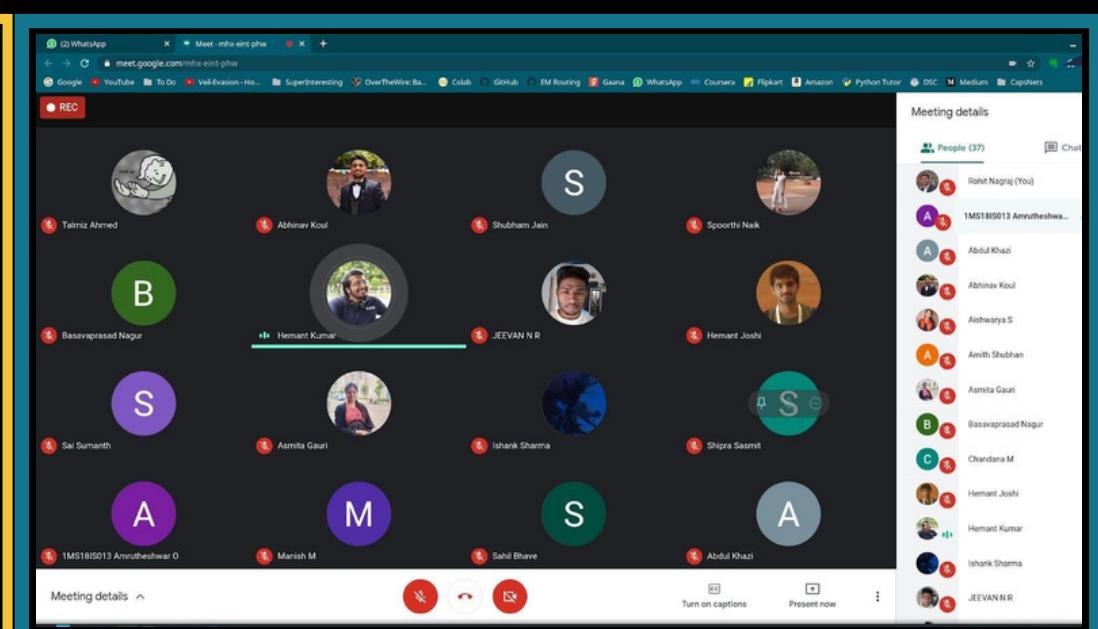
Bug Bounty was conducted on 31st August 2020 with 142 participants. It was an online contest held in two formats, Web bugs, and C-bugs. In C-bugs, participants



were to debug the codes written in C; upon successful debugging, a key was given as output using which, the password to the next question was revealed. There were three levels of difficulty easy, medium, and hard which granted commensurate scores. In Web bugs, a template of a website and faulty code was given, from which they were to debug to get the desired website as the template given. Each rectification made in the code was associated with scores accordingly. The top 3 teams that scored the highest in both formats combined were awarded cash prizes.

### 4. Microsoft Cup Tips & Tricks

Microsoft Image Cup Tips & Tricks was conducted on 12th September 2020 with 37 participants. Guests were invited who were Asia Finalists in the Imagine Cup to give a talk



about the contest requirements and tips and tricks to hack the event. Also, the judging criteria were discussed and what keys are expected from a team were told to the keen attendees.

## 5. 30 Days OF Cloud

30 Days of Google Cloud was conducted from 26th Sept 2020 to 5th Nov 2020 with over 240 participants.

The program provided an opportunity to kickstart career in cloud

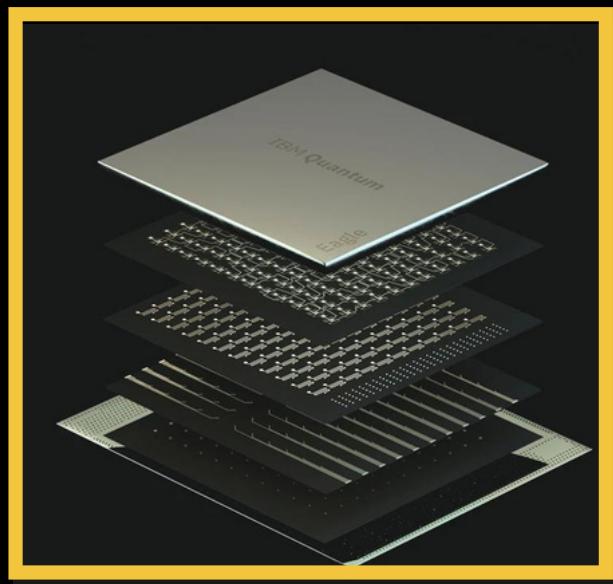
and get hands-on practice on Google Cloud Platform - the tool that powers apps like Google Search, Gmail and YouTube. Along the way, concepts like computing, application development, big data & machine learning using cloud were learnt and practised and if any participant got stuck, the Campus Facilitators Rishabh Priyadarshi, who is specially trained on Google Cloud helped to resolve the issues.



## TECH NEWS

IBM has unveiled the Eagle, the world's most powerful quantum processor. Boasting 127 quantum bits (qubits), the Eagle is a major step towards commercial quantum computers outperforming traditional machines.

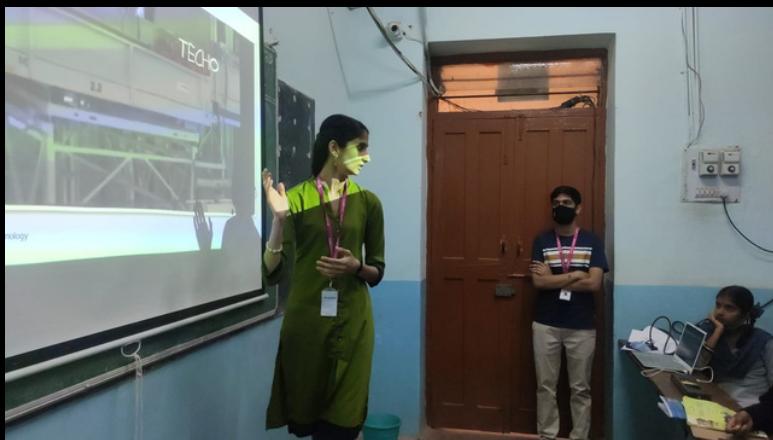
IBM says that the breakthrough is made possible by a new chip architecture that crams more qubits in. Quantum computers take advantage of the quirky world of quantum physics to boost computing power to incredible new heights. In a classical computer, data is stored and processed in bits, represented by either a zero or a one. But in quantum computers, qubits can not only be in a zero or a one state, but a superposition of both at the same time.



# IEEE CIS

## Technical Talk on Technologies for Agriculture and Food Processing

This event was organised to raise High School Science and Technology literacy level using Engineering students as 'Ambassadors of Education'. It was conducted by IEEE CIS student branch of Ramaiah Institute of Technology, Bengaluru for high school students of rural and urban areas. The program covered topics on the need of technologies in agriculture, smart farming using drones & robots, and technological advancements in food processing. This seminar was organised under the guidance of Dr. Vijaya Kumar B.P., Professor, and Dr. Megha P. Arakeri, Associate Professor, Department of I.S.E., Ramaiah Institute of Technology. The following I.S.E. (2nd year) branch students conducted the seminar: Niveditha Bhat, Washitwa Mani Jaiswal, Yashaswini M, Niharika H G

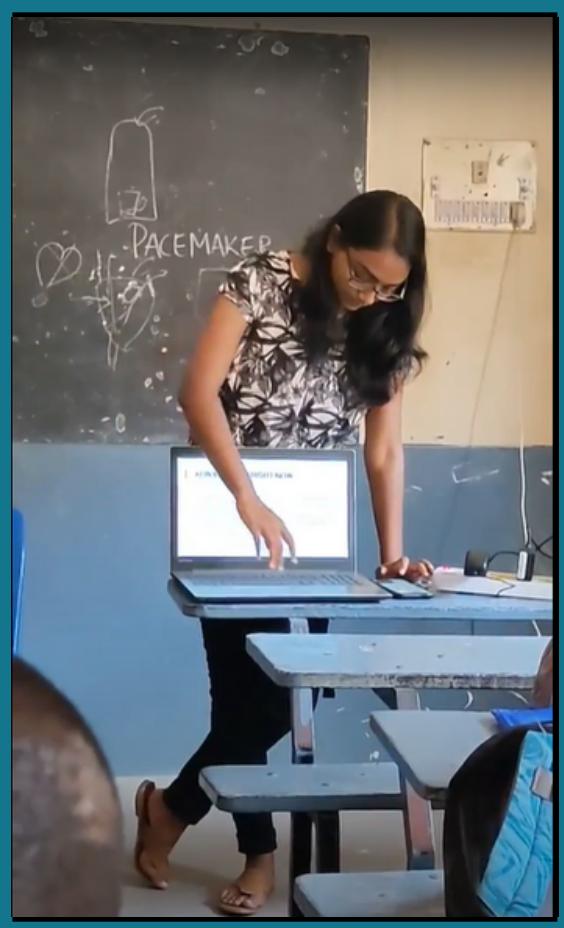


# Technical Talk on Medical Technologies for health and wellbeing

The Eu-Reka 2021 event was organized by the IEEE Pune Section in the month of September 2021.

We, Omshree R Hiremath, Namratha M N and, Navya Kulkarni, students of ISE, RIT actively participated in the event.

We chose the topic "Medical Technologies for health and wellbeing and were guided by Dr. Megha P Arakeri ma'am from the start to the end. The Major aim of the Eu-Reka program is to raise the national high school literacy level. We believe that youth in colleges like us have a responsibility towards the endogenous growth of the country, and the best way is to share our knowledge and motivate the youngsters in the schools to take up higher education in Science and Technology and even towards research.



## IEEE AND MEMBERS

- IEEE , established in 1884, has about 4.3 lakh members spread over 160 countries across the globe.
- IEEE is the world's largest technical professional organisation which is dedicated to advancing technology for the benefit of humanity.
- IEEE members are composed of engineers, scientists, and allied professionals.
- These professionals include computer scientists , software developers , information technology professionals ,physicist , doctors and many other

A grid of small, square-shaped portraits of various individuals, likely IEEE members, arranged in several rows.

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"The AI does not hate you, nor does it love you, but you are made out of atoms which it can use for something else."

- Eliezer Yudkowsky

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## LAUGH OUT LOUD

Why did the programmer quit his job?  
Because he didn't get arrays.

What did Java code call a C code?  
You have no class.

Why was the DBA divorced?  
Because the DBA has one to many  
relationships.

Sl no.	Name Of Authors	Title of Book/Book Chapter	Year	Name of the Publisher	Book/ Book Chapter
1.	Dr. Megha P Arakeri	ViEW: Assistive Technology for Visual Impairment Using Computer Technologies	Dec 2020	Nova Science Publisher	Book Chapter
2.	Dr. Mydhili K Nair	Spider Monkey Optimization Algorithm in Data Science: A Quantifiable Objective Study	2020	Springer	Book Chapter
3.	Dr. Mydhili K Nair	Multi-Agent Based Systems In Machine Learning And Its Practical Case Studies	2020	Springer	Book Chapter
4.	Mani Sekhar S R Siddesh	Bioinspired Techniques for Data Security in IoT	2020	Springer	Book Chapter
5.	Mani sekhar, Siddesh G M	Supply chain analytics technology for big data"	2020	CRC Press (Taylor & Francis Group)	Book Chapter
6.	S R Mani Sekhar, Siddesh G M	Data Collection in Fog Data Analytics	2020	Springer	Book Chapter

# BOOK CHAPTERS

# STUDENT PUBLICATION

Sl no.	Name(s) of Author(s)	Title of Paper	Name of Conference/ Publication	Date
1.	S R Mani Sekhar, SnehilTewari, Haaris Rahman and Siddesh G M	Data Collection in Fog Data Analytics	Studies in Big Data, Springer	2020
2.	Nagarthna M Raikar, Megha P Arakeri	Development of Vehicle speed estimation technique using image processing	International Journal of Engineering research and Technology, International, Scopus, Vol.9, Issue9	Sept 2020
3.	Vaibhavalakshmi. C. D, Deepthi. K	Survey on Fake Online Review Recognition Techniques	IJESC	Volume 10 Issue No.7
4.	Vaibhavalakshmi. C. D, Deepthi. K	Detection of Fake Reviews in Social Media using Machine Learning Techniques	International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 07	July 2020
5.	S R Mani Sekhar, Nidhi Bhat G, Vaishnavi S, Siddesh G M	Data Security and Privacy in 5G enabled IoT	Blockchain for 5G-Enabled IoT: The new wave for Industrial Automation, Springer Nature	2021
6.	Deepthi K, K S Pavan Krishna, Harshita S Nayan Deep, Gautham M G	Social Distancing and Face Mask Detection Using Deep Learning	International Journal of Innovative Science and Research Technology, Volume 6, Issue 6	June 2021

Sl no.	Name(s) of Author(s)	Title of Paper	Name of Conference/ Publication	Date
7.	S R Mani Sekhar, Siddesh G M, Sarthak Jain, Tilak Singh, Vinay Biradar, UmerFaruk	Assessment and Prediction of PM2.5 in Delhi in View of Stubble Burn from Border States using Collaborative Learning Model	Aerosol Science and Engineering, Springer, vol 5	2021
8.	Sujana DV, SahanaHegde, Chongtham Pankaj, Shruthi Suresh, Priyanka Ramakrishna, Vijayakumar B P	Temporal based Network Packet Anomaly Detection using Machine Learning	IEEE CONECCT 2021, 9 to 11 June 2021, Bangalore	IEEE Explore 2021
9.	VivekDosaya, ShashwatVarshney, Shraddha Tak, Akshay, Vijaya Kumar B.P	A Low cost Augmented Reality system for Wide Area Indoor Navigation	2020 International Conference on Decision Aid Sciences and Application (DASA), IEEE explore page: 190-195	8-9 Nov. 2020
10.	K S Pavan Krishna	Visualization of EEG Data to Detect ADHD in children and Adults	International Journal of Innovative Science and Research Technology	Dec 2020
11.	MUNI SAI HANEESH	A machine learning model that can predict the insurance amount that can be claimed if the car is classified as damaged and applicable to claim insurance.	A Study on insurance amount prediction from classifying the car.	2021
12.	Louie Antony Thalakkottor, Tarun Krishnan	Chapter - Big Data Analytics for Marketing Intelligence	Big Data Analytics: Application in business and marketing	2021

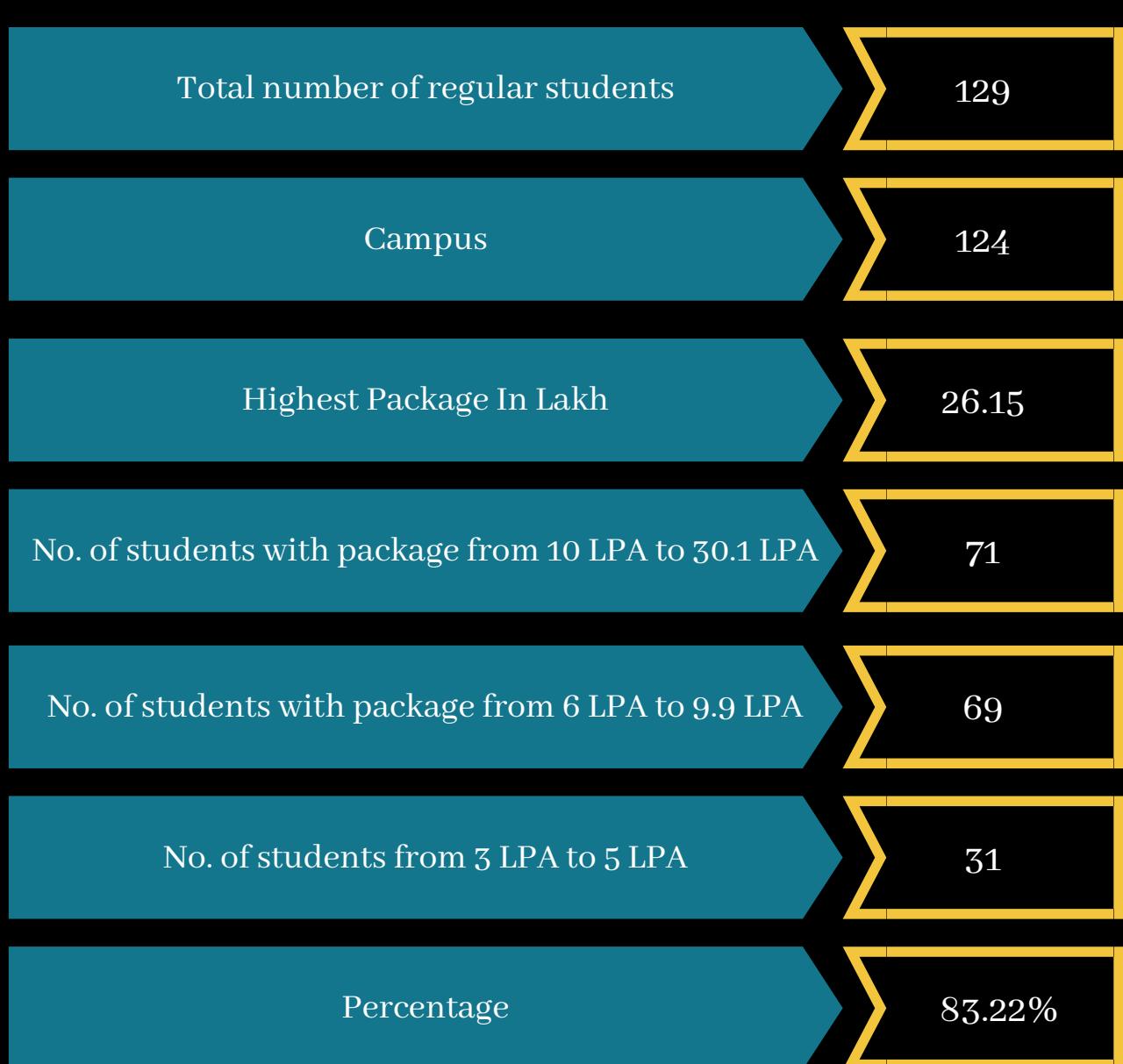
# STUDENT AWARDS

Sl no.	Student Name	Event Details	Organised By	Date	Level
1.	Raghav Maheshwari, Mohan Kumar K	Code Fury 3.0 - 2nd Place	Conducted By UVCE Bangalore, Awarded Rs 5000	7th Nov 2020	State
2.	Raghav Maheshwari, Mohan Kumar K, Manvendra Bansal	Solve for India Hack - 1st Place	Atria Institute of tech and IEEE.	31 May, 2021	National
3.	Ayush Ujjwal, Aman Bhatnagar, Ishank Sharma, Ujwal KC	Smart India Hackathon, First Place	Government of India, Awarded Rs 1Lakh/-	2nd & 3rd Aug 2020	National
4.	Rohit Nagaraj	ASEAN India Hackathon, First place	AICTE, Ministry of Education, India, \$2700 as cash prize.	2nd to 4th Feb 2021	International
5.	Jayant Sogikar, Nandan Herekar	Technical Festival, 1st position Cepheus'21	Indian Institute of Technology, Goa. Awarded Rs. 5000/-	15th to 17th Jan 2021	National
6.	ThirtharajSengupta	Quarter finalist	Parliamentary Debate Tournament	Mar 2021	National
7.	Rithik Agarwal, Nidhi Bhat G, Parth Vyas	Smart India Hackathon, First Place	Government of India. Awarded Rs 1Lakh/-	2nd & 3rd Aug2020	National
8.	R Jayanth Jadhav	Winner	Video Analysis Competition - World No Tobacco Day	May 31, 2021	State

# STUDENT PARTICIPATION

Sl no.	Student Name	Event Details	Date	Level
1.	Arkodeep Koley, Ujjawal Kumar Vidyarthi, Prateek Singh	Uidai Hackathon, Aadhaar Hackathon 2021	1st Jan 2021	National
2.	Jayant Sogikar, Nandan Herekar	NMIT Hacks	20th March 2020	National
3.	Athena Marianne Lobo, Anjali Agrawal, Aryan Raj Sholapure, Anusha Chaturvedi, Chirag G	Toycathon AICTE, Ministry of Education's Innovation Cell 2021	22nd June 2021	National
4.	Sahana	Spit free India movement by NSS	5th June 2021	National
5.	Pavana K	Delegate in IMUN Online Conference 20.0	29th & 30th Aug 2020	National
6.	Yash Jain	HACK IN INDIA, India's Biggest Hackathon	1st & 2nd July 2020	National
7.	Yash Jain	Lensathon – India's First Augmented Reality Lens Creation Hackathon by Snapchat India	8th July 2020	National
8.	Kushan Singh	Participated Cyber Apocalypse CTF	April 2021	National

# Placement



# PLACEMENT GUIDE



Rohit Nagaraj

Campus Placement : Paytm

Currently Working In : Graphene AI

"My 4 years of engineering was so great and so much of it is owed to the department of ISE. The faculty was very approachable and helpful. My mentors guided me through the 4 years of engineering and still continue to help me. The college and the department have shaped my life and I will forever be grateful to each and every person involved."

## 1. How to prepare for placement interview?

"Go through Geeksforgeeks placement prep material, brush up all your core subject fundamentals, practice competitive coding and have patience."

## 3. What are the qualities/attributes that stand out during an interview.

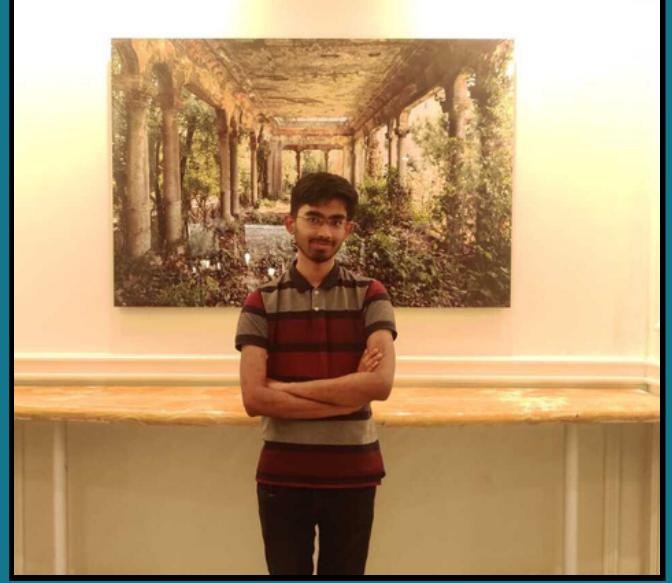
"The ability to approach the solution of a problem you don't know the solution for is the most important thing I believe. How you think through the constraints, use tools like the internet to help you, etc."

## 2. Tips on writing a resume.

"Keep it under 1.5 to 2 pages, preferably under a page, write each of your points in the following format:

- Describe what you achieved (X)
- Describe how the achievement was measured (Y)
- Describe what you did (Z)."

"I had a wonderful time during my coursework. The Department of Information Science Engineering is the most happening department at college. I was fortunate to learn from the best faculties, best set of peers and amazing seniors. Also, The "Hackathon Culture" is what makes our department really unique. Also, the course curriculum is really industry oriented and imparts practical skills that really made a difference when I started my career in industry."



Raghav Maheshwari

Campus Placement : Oracle

Currently Working In : Amazon

### 1. How to prepare for placement interview?

"According to me,

- Have good foundations of data structures and algorithms.
- Have good practical understanding of Database Management Systems, Operating systems, Computer Networks and Design patterns.
- A couple of good projects which really stand out to the interviewer. "

### 2. Tips on writing a resume.

"I followed the below points for writing my resume:

- Have a CV of maximum 1 page
- Include Github/Live links to your projects.
- Mention your ratings on various competitive programming platforms like Codechef, Leetcode etc.
- Mention your internships and open source contributions, and highlight the impact created. "

### 3. What are the qualities/attributes that stand out during an interview.

"Open source contributions, hackathon performances, good ratings on competitive programming platforms, impactful projects, research papers and a good CGPA are some of the qualities that really stand out in an interview."



Bengaluru-based **Foxformula** is solving the problem of unemployability in India by offering engineers industry-oriented skills, global certifications, and industrial internships. The edtech startup now aims to launch in the Middle East and Europe next.

"Degrees in hand, but are India's graduates job-ready? Not really, according to a Niti Aayog report released last December. The report said that a huge 53 percent of students who pass out from higher educational institutions every year are "not employable".

Keen to tackle this problem, Ayush Bansal, 22, and Shubham Sharda, 23, founded Foxformula, an edtech startup that aims to upskill fresh graduates with industry-oriented skills, global certifications, and exposure via industrial internships.

Interestingly, the founding duo decided this cause was important enough to take a break from studies - they started up after completing the third year of their Information Technology engineering course at M.S. Ramaiah Institute of Technology. The platform offers industry-oriented and self-paced internship modules last for 45 days after a one-month training period. The candidates are certified by reputed organisations like Microsoft, SAP, AWS, IBM, and MSMEs after the completion and submission of the project. These courses are taught by globally certified professionals from various tech corporations, including Microsoft, Plant Genome Science Ltd, Tetra Pack, and Peerlyst."



# TOP 10 COVID SOFTWARE SOLUTIONS THAT ARE HELPING THE GOVERNMENT

In a bid to put an end to the Coronavirus pandemic for good, many Governments across the world have resorted to a number of COVID software solutions. These solutions have yielded results, though, but to varying degrees.

1. MatriX-iPassTM
2. Salesforce Vaccine CLOUD
3. Cronj AI
4. IBM Vaccine Management Solution
5. Microsoft Vaccination Management
6. Vaxcare
7. Vaccine Express
8. Accenture Vaccine Management Solution
9. Infosys Vaccination Management Solution
10. Crowe Vaccination Management System

# TOP 10 TECHNOLOGIES FOR 2021 AND BEYOND

## Artificial Intelligence

In the artificial intelligence trends 2021, we hope to see tremendous demand and rapid development of AI and modern industrial automation technology. Automation with the assistance of AI, robotics and IoT will be a key solution to operating manufacturing.



## Internet of Things

The IoT technology trend enables better security, efficient decision making for businesses as information is collected and analyzed through the internet. It is said to provide predictive maintenance, speed up medical care, improve customer service, and offer various benefits in the coming future.

## Natural Language Processing

In a year or two, Chatbots would have reached their market potential, with the majority of the businesses employing them to redefine their customer engagement policies. A report by Business Insider predicts that the chatbot market which was worth \$2.6 billion in 2019 will reach US\$9.4 billion by 2024.

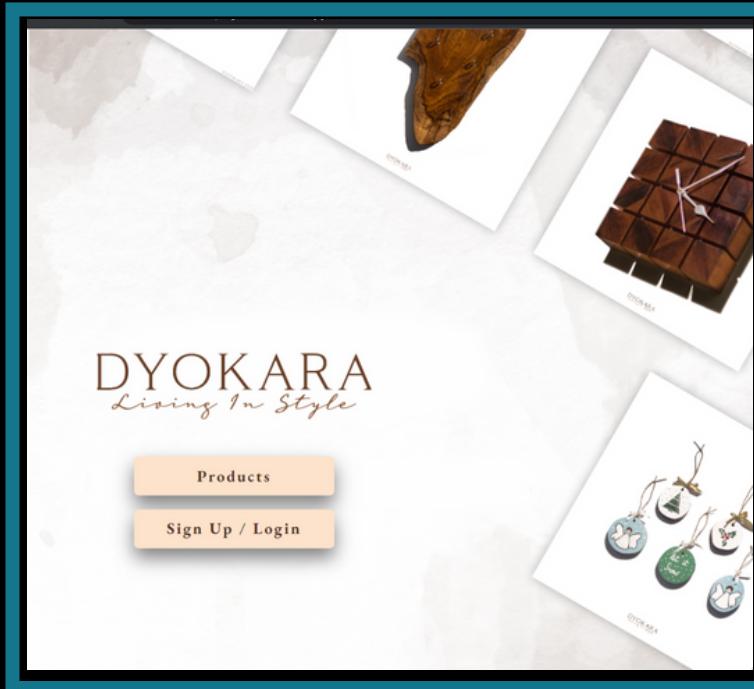
## Blockchain

People who are currently unaware of what Blockchain and Cryptocurrencies are and where they can spend them, will start doing their everyday transactions with them. The future will see Blockchain development solution being explored beyond cryptocurrencies.

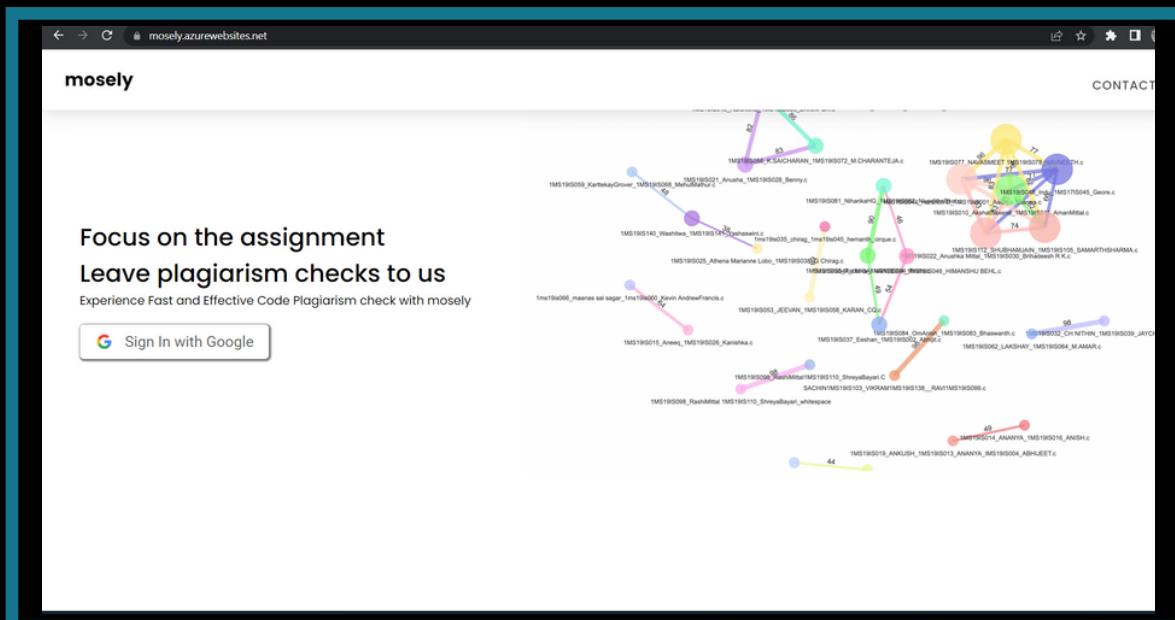
## Voice Search

The near future with a set of upcoming new tech trends will find itself conducting more operations with a voice command. In only a matter of time, every device that we have surrounded ourselves with will be able to function and perform actions with a command of our voice.

# CREATIVITY



An e-commerce web application developed for a small business. Features a clean, minimalist UI, with functionality to add products to cart, wishlist, take up orders for customers. Also allows the creation of new products, management of products, and orders for the owners of the business. Developed by Sushil Mario(1MS19IS125) as the team lead, along with Louie Antony (1MS19IS063).



A web application developed by Stuti Prasad(1MS18IS105), Kushal Garg(1MS18IS047) using FERN stack and MVC architecture for detecting plagiarism among students on submitting assignments by making use of Moss Stanford for the ISE Department. It has an easy user interface which provides detailed visual reports of plagiarized documents. It has been used by some teachers in the department to detect plagiarism between submissions.

## WEBSITES DEVELOPED

" Nowadays, we rely increasingly on digital communication. While technology has steadily improved in this field, there's still something missing - the human touch. An AI Human is an avatar that can produce a whole range of human body language. Backed by artificial intelligence it can interpret clients' inputs and give back to them not just the facts they need but the appropriate non-verbal response as well. Advantages of AI humans:

- AI Humans are AI powered human-like virtual beings that offer the best of both: AI and Human conversation
- Interact using verbal and non-verbal cues – tone of voice and facial expressions.
- Making it possible to recreate natural human interaction at scale.
- Additionally, they are accessible 24 hours a day, seven days a week; never have an off day.

The use of digital AI assistants has great potential in industries such as health and marketing. "

Hammad Feroz - 1MS20IS049

" 'Darn it,' he cursed, as the knife tripped off his hands. It made a cut, not a huge one, but big enough for him to see the blood oozing out of his palm. At first, it was just a speck coming from the upper edge of the cut, but then the blood slowly and gradually covered the entire cut like an overflowing bathtub. It was a fascinating sight for him, enough to bring a small but genuine smile to his face. "

Suhan Bangera - 1MS19IS120

ಹೊನ

ಅಂದು

ಹಸಿರಾಗಿ ಬೆಳೆದಿರುವ ಮರಗಿಡಗಳು  
ಕುಹೂಕುಹಾಹಾಡುವಕೋರಿಲೆಗಳು

ಇಂದು

ಬರಡಾಗಿ ಕಂಡಾಗಿರೊಭೂಮಂಡಲ  
ರೊಚ್ಚಿದ್ದು ಕಿರುಚಾಡೋ ಗಿಡುಗಗಳು

Niharika H G - 1MS19IS081

W R I T I N G S

The sunset over the horizon,  
The wind over my face,  
The salt and the sand,  
The voice of the shores,  
I stand alone,  
To feel my worth after long,  
Neither has the time been great,  
Nor did I give it my best Life give me a break,  
I know I am strong,  
Is my suffering a sign?  
Or just the doubt of my heart,  
It makes me feel like I belong in the ocean.  
After long, I feel complete,  
Is it the water which touches my feet?  
Is it the air of happiness around my skin?  
Why do I feel like a Mermaid?  
A mermaid lost in a human world.  
I don't feel like going back,  
Leave me alone! screams my soul,  
My heart aches while leaving this place,  
Maybe, I cannot return.  
Only if I could leave the materialistic world,  
To give it what it deserves.  
Maybe, I am a mermaid lost in the wrong world.

Kritika Gupta - 1MS20IS062

My life is my friend,  
I don't have the right to put it to an end.

For the millions of cells that died for my birth,  
For the infinite possibilities,  
I still want to know my worth.

I was born to live, not to die.  
I am here to live, not to get scared and fly.

R Jayanth Jadhav - 1MS20IS013091

W R I T I N G S



Navasmeet Nayak - 1MS19IS077



A V Karan - 1MS19IS013



Omshree Hiremath - 1MS19IS085



Dhatvik N P - 1MS20IS037

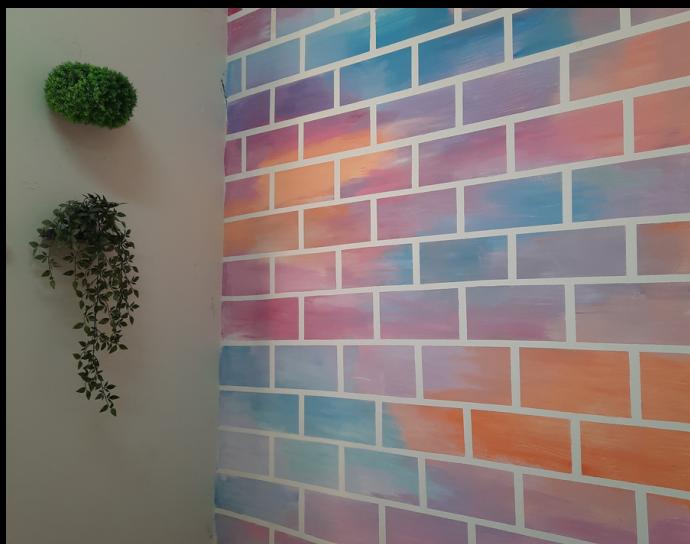
PHOTOGRAPHY



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Prapti Bopana - 1MS20IS088



Sanjana Somanath - 1MS19IS107



Vandana G - 1MS18IS122

ARTISTIC WORK

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- H L Shashank - 1MS20IS402
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- Evangeline D

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 **2020-2021**.



**RAMAIAH**

Institute of Technology