TECH TALKS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sreyas Institute of Engineering and Technology

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dear staff and students

Sreyas Institute of Engineering and Technology ,located in the heart of the city, is the result of deliberation and planning of every aspect to create a world class technical educational institution.The campus is located at Nagole ,the most happening area in the city of Hyderabad.This proximity helps us in attracting the beacons of industry to our campus for regular interactions with our students.

The first impression as u enter the sprawling green and verdant campus of Sreyas leaves a lasting impression of innate calm and energizing growth. Our student-centric approach will ensure that Sreyans gain not just depth and breadth in their chosen area of specialization,but a holistic set of skills that will equip them to face the real world. At very stag,there will be opportunities to expand their boundaries ,with multiple platforms for collaboration and learning.

The infrastructure is absolutely world-class with opportunities to build practical skills in stat-of-the-art laboratories and workshops.The thriving and vibrant campus with its multitude of activities will help them develop a well-rounded and grounded personality that evolves natural Finally ,our intention is to ensure that every opportunity to learn is utilized to the maximum and the end goal is that the student transforms into an individual full of enthusiasm ,confidence and knowledge to face global challenges, becoming both individually and professionally successful, as well as socially responsibly If these are the values you believe in to, you will do well at Sreyas. Bring your dream, drive and determination to Sreyas and We will help you realize your dream.

Sincerely,

Anantula vinay kumar reddy

Chairperson for
Sreyas Institute of Engineering and Technology

It gives me immense pleasure to present fourth issue of the magazine brought out by the students and faculty and staff of Sreyas family

Magazine of this type provides an opportunity to the members of sreyas fraternity to express with in and outside sreyas campus.

Magazine also showcase talent spectrum of Sreyas Institute of Engineering and Technology encourages students to learn about themselves and their constantly changing environment ,while at the same time offering support and guidance as they practice decision-making and social skills.

Anantula Vinay Kumar Reddy

Chairman

FROM COLLEGE

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

CH.RAVINDRANATH YADAV

SREYAS has been prepared to be constantly challenged, whether it is in classroom or outside. You can look forward to being trained by excellent and committed faculty, get hands-on experience in the state of the art technology in world class MNCs and building enduring bonds with your peers the institution aims at encouraging the students to devlope master and gain the knowledge to latest technology .

By Secretary

A.HRIDAY REDDY

SREYAS is about always trying to push the bar a little more, constantly innovating and never standing still. If these are values you believe in too, you will do well at SREYAS. If you have the drive and determination, come to SREYAS and we will help you realize your dreams. sreyas will provide you with all the opportunity and liberty to discover yourself   the institution aims at encouraging the students to develop master and gain the knowledge to the technology .

By Board Member

A MESSAGE FROM THE PRINICIPAL

By DR.SURESH AKELLA

Sreyas institute of Engineering and Technology is established with a vision of nurturing talents.The primary aim of this institution is to provide professional education, in a vibrant atmosphere to deserving students .

Sreyas looks at education not merely in terms of quantity of knowledge but in terms of quality of knowledge.That helps from the character of students total formation of individuals in a world of unequal and unjust society.

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

BANDLAGUDA,NAGOLE,HYDERABD

Dear staff and students,

Sreyas Institute of Engineering and Technology is a product of a dream and vision to excel and be a premier institution in the field of engineering. The college has the most modern and best infra structure.

It provides a wide arena for the staff and students to showcase their academic and extracurricular activities.Our endeavor is to provide the students an exhilarating experience. The college is within the city limits yet in the midst of eco-friendly green surroundings. You will find nature and technology blending in our campus.

Sreyas will provide you with all the opportunity and liberty to discover yourself. The institution aims at encouraging the students to develop, master and gain the knowledge to the latest technology and global development. I believe that these will be the best years of your lives. The years you spend in our institution will shape your future and make you an excellent engineer and a wonderful human being.

On behalf of every member of this institution, I welcome you to our college. We will be here to guide and assist you all the way to achieve your goal and excel in all that you do while you are with us.

Respectfully yours,
sri Anantula vinay KumarReddy
Chairman ,
Sreyas Institute of Engineering and technology

WELCOME ON BOARD

Welcome to the New Year! It's so good to have you back!

Vision and Mission of Institute

By chairperson

VISION

To be a center of excellence in technical education to empower the young talent through quality education and innovative engineering for well being of the society.

MISSION

- Provide quality education with innovative methodology and intellectual human capital.

- Provide conducive environment for research and developmental activities.

- Inculcate holistic approach towards nature, society and human ethics with lifelong learning attitude.

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

PEO'S

Computer Science & Engineering (CSE) is one of the most prominent technical fields in Engineering. The curriculum offers courses with various areas of emphasis on theory, design and experimental work. Subject matter ranges from basics of Computers & Programming Languages to Compiler Design and Cloud Computing.

It maintains strong tie-ups with industry and is dedicated to preparing students for a career in Web. Technologies, Object Oriented Analysis and Design, Networking &. Security, Databases, Data Mining & Data Warehousing and Software Testing.

PEO-1

- Graduate will be empowered with strong fundamental concepts, analytical capability, programming and problem solving skills .

PEO-2

- Graduates will be employed or may pursue higher education or undertake research.

PEO-3

- Graduates will lead in their profession with integrity and civic responsibility and a continuous learning attitude.

Sincerely,

CSE DEPARTMENT.

CSE DEPARTMENT

MESSAGE TO READERS

I believe the CSE discipline has been widely recognised as an essential source and technique for the advancements in all spheres of human Endeavour now and in future.It is my pleasure to congratulate the team that has taken the initiative for producing this magazine. This magazine provides a platform for students and staff to share information, spread the latest technical knowledge and cultivate right ways that will equip all of us to stay competent in our respective fields of Study and Research.

Dr.V.GOUTHAM

Dr.M.Purushotham working as a Professor , had his research on Artificial Intelligence,Machine Learning & Soft Computing , experienced industry for more than 4 years and teaching field for more than 3 years. This magazine provides a platform for students and staff to share information, spread the latest technical knowledge and cultivate right ways that will helpful in creating and innovating plat-from for students and staff to express there thoughts.

Dr.M.PURUSHOTHAM

Mr.B.Rajesh working as a associative Professor , had his research on Network Security, experienced teaching field for 10 years.the college magazine is best medium to project the academic and extra curricular activities of the students with the guidance of there faculties members.

DR.B.RAJESH

Dr.Rohit Raja working working as a Professor, had his research on Image Processing , experienced industry For 1.5 years & teaching field for 10 years.I am sure that this annual magazine of cse department will be able to show case the outstanding performance of the students .I wish them bright future.

Dr.ROHIT RAJA

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

MISSION AND VISSION

VISION

- To excel in computer science engineering education with best learning practices, research and professional ethics.

MISSION

- To offer technical education with innovative teaching, good infrastructure and qualified human resources.
- Accomplish a process to advance knowledge in the subject and promote academic and research environment.
- To impart moral and ethical values and interpersonal skills to the students.
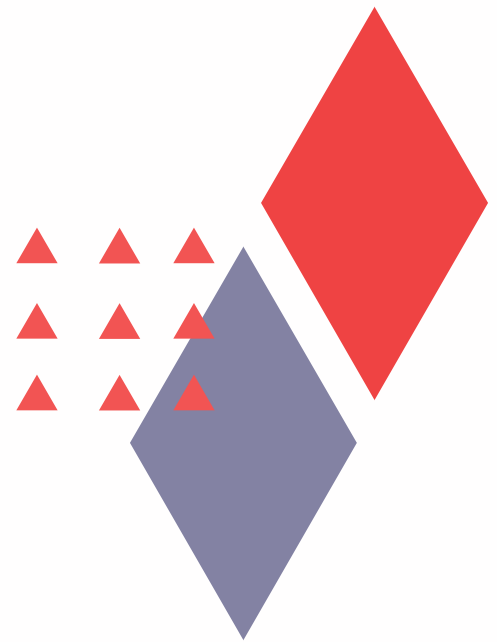
MAGAZINE

contents
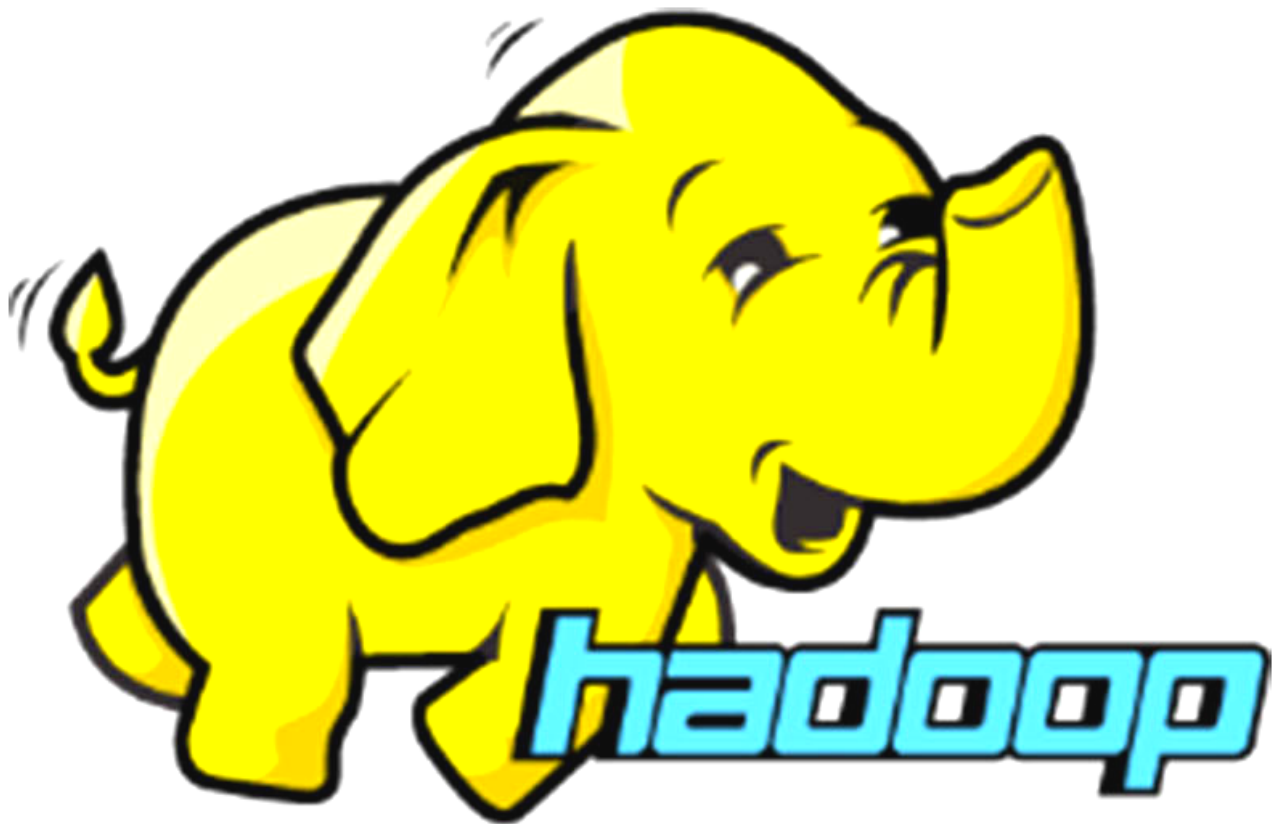
# APACHE HADOOP
Frame Work

Mrs.S.PALLAVI
ASSISTANT PROFESSOR

Apache Hadoop is an open source software framework for storage and large scale processing of data-sets on clusters of commodity hardware .Hadoop is an Apache top level project being built and used by a global community of contributors and users.It is licensed under the Apache License 2.0.

The Apache Hadoop framework is composed of the following modules: Hadoop Common contains libraries and utilities needed by other Hadoop modules Hadoop Distribution File System (HDFS) - distributed. file-system that stores data on commodity machines, providing very high aggregate bandwidth across the cluster.

assumption that hardware failures (of individual machines, or racks of machines) are common and thus should be automatically handled in software by the framework. Apache Hadoop's Maps reduce and HDFC,YARN and Map reduce and Google File System(GFS) papers Beyond HDFS,YARN and Map Reduce, the entire Apache Hadoop "platform" .

PageRank

C4.5

EM

DATA MINING

K-means

Apriori

Support vector machines
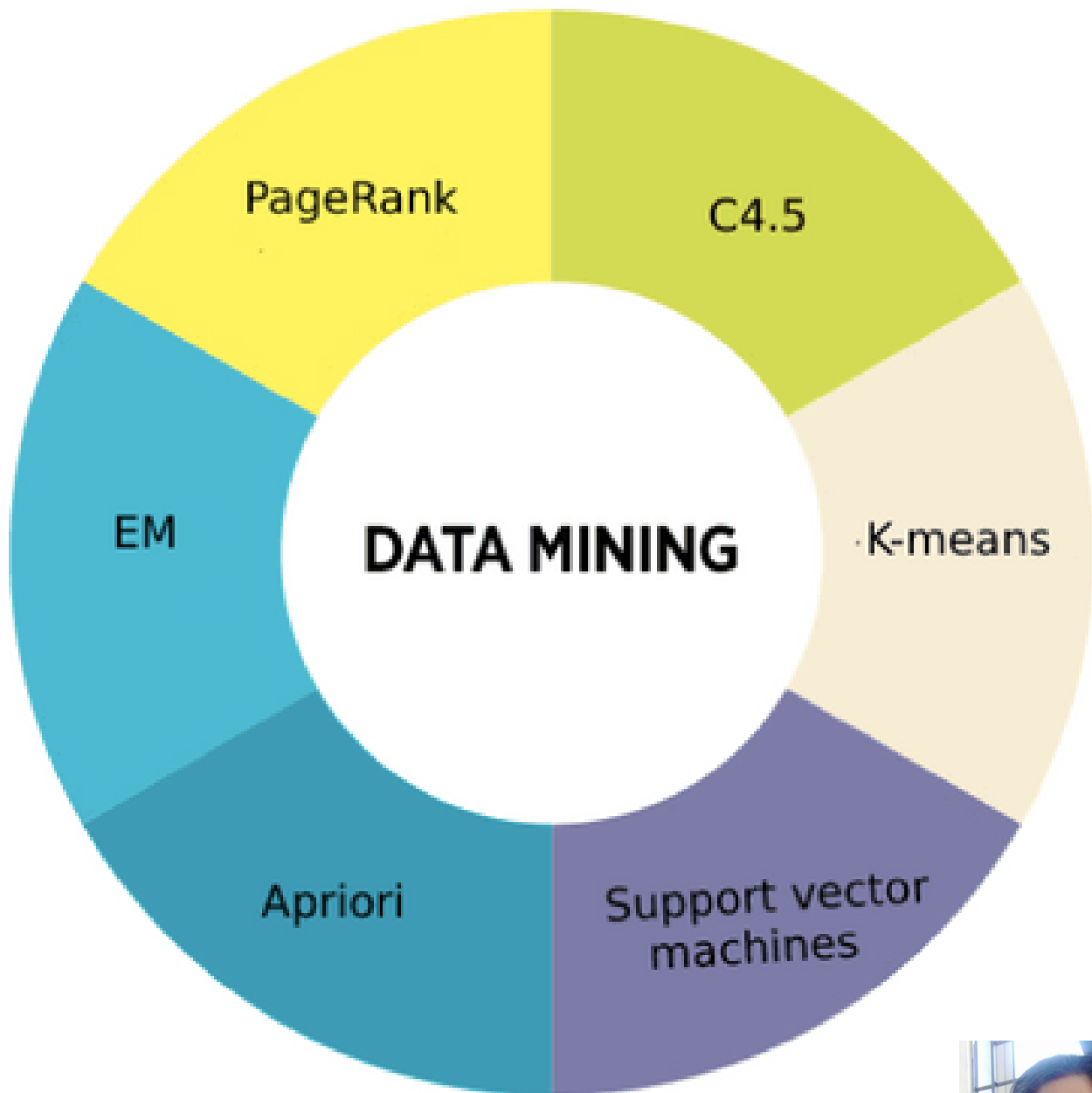
DATA MINING

SEEING K-NEAREST ALGORITHM

SEEKING K-NEAREST NEIGHBOR ALGORITHAMS LEAP INTO ACTION
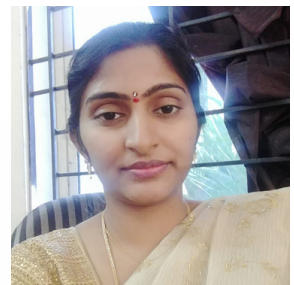
Mrs.K.Ramya
ASSISTANT PROFESSOR

Neighbor techniques are often used for theft prevention in the modern retail business. People are accustomed to see CCTV cameras around almost every store you visit, but most people have no idea how the data gathered from these devices is being use to simplify management and security in daily retail operations. You might imagine that there is someone in the back room monitoring these cameras for suspicious activity, and perhaps that is how things were done in the past. But today, a modern surveillance system is intelligent enough to analyze and interpret video data on its own,without a need for human assistance

enough to analyze and interpret video data a need for human assistaOPPING CART:The modern systems now able to use k-nearest neighbor for visual pattern recognition to scan and detect hidden packages in the bottom bin of a shopping cart at check-out. If an object is detected that's an exact match for an object listed in the database, then the price of the spotted product could even automatically be added to the customer's bill. While this automated billing practice is not used extensively at this time, the technology has been developed and is available for use.(elementary data flows) and jobs (execution sequences of transformations

Pan - executes transformations modeled in SpoonKitchen - executes jobs designed in Spoon Carte - a simple web server used for running and monitoring data integration tasks Pentaho enterprise edition.

The enterprise edition of PDI adds some extra components that extend the capabilities of the Pentaho platform, including support and performance monitoring.

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

KOLISETTI NAVATHA
for successfully completing the course

Problem Solving Through Programming In C

with a consolidated score of   **76**   %

Online Assignments	24.00/25	Proctored Exam	51.75/75

Total number of candidates certified in this course: **9254**

A. Goswami

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinat
IIT Kharagpur

Jan-Apr 2019
(12 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL19CS06S41451203

Problem Solving Through Programming in C

NPTEL CERTIFICATION

NPTEL is helped me to understand the practical approach of C-Programming.This Course will help me to deliver the lecture and I will more focus on practical approach which will helpful for my students to learn the programming language.

This is an good experience this made a change my perception in programming language we went through an various methods and terminology involved in this course which helpful in building up new methods in innovative way that could helpful in an ecosystem to share with student's .

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

KOKKONDA MADHURAVANI

for successfully completing the course

Problem Solving Through Programming In C

with a consolidated score of **71** %

Online Assignments	24.06/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: **9254**

A. Goswami

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinat...
IIT Kharagpur

Jan-Apr 2019
(12 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL19CS06S31450240

Problem solving Through Programming in c

NPTEL CERTIFICATION

NPTEL is helped me to understand the practical approach of C-Programming. This Course will help me to deliver the lecture and I will more focus on practical approach which will helpful for my students to learn the programming language.

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Scale document

CERTIFICATE

OF COMPLETION

KALLEPALLI ROHIT KUMAR

Is certified by edureka! as

BlockChain Developer

with Grade A

Cerificate ID :   TNXEKZ9S   Date :   22nd Mar 2019   Director :

The Certificate ID can be verified at www.edureka.co

Block Chain Developer

Mr.K.Rohit kumar

ASSISTANT PROFESSOR

A blockchain is a growing list of records, called blocks, which are linked using cryptography. Each block contains a cryptographic hash of the previous block a timestamp, and transaction data (generally represented as a Merkle tree).

By design, a blockchain is resistant to modification of the data. It is "an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way.

The blockchain is an undeniably ingenious invention – the brainchild of a person or group of people known by the pseudonym, Satoshi Nakamoto.

 But since then, it has evolved into something greater, and the main question every single person is asking is: What is Blockchain?

By allowing digital information to be distributed but not copied, blockchain technology created the backbone of a new type of internet. Originally devised for the digital currency, Bitcoin, (Buy Bitcoin) the tech community has now found other potential uses for the technology.

PUBLICATIONS

- Md Rashid Mahmood, Raj Kumar Patra, Rohit Raja, G R Sinha(2018)
  A Novel Approach for Weather prediction using forecasting analysis and Data Minin Techniques,Published in 7th International Conference on innovations in Computer Science and Engineering on 27th- 28 July 2018.

- A. Swathi and Shilpa Rani
  Intelligent Fatigue Detection by using ACS and by Avoiding False Alarms of Fatigue Detection,Published in 6th International Conference on innovations in Computer Science and Engineering on 17th- 18 Aug 2018.

- Deepika Mallampati
  Supervised Machine Learning Classifies for Email Spam Filtering,Published in 6th International Conference on innovations in Computer Science and Engineering on 17th- 18 Aug 2018.

- M. Sudhakar, Reddygari Pallavi
  Decoupling Voice over IP from I/O Automata in SystemPublished in 6th International Conference on innovations in Computer Science and Engineering on 17th- 18 Aug 2018.

- Raj Kumar Patra, Rohit Raja, Tilendra Shishir Sinha, Md Rashid Mahmood
  Image Registration and Rectification using Background Subtraction method for Information security to justify Cloning Mechanism using High-End Computing3rd International Confernce on Computational Intelligence and Informatics (ICCII-2018), held during 28-29 Dec 2018.

- S. Pallavi, K. Ramyalaxmi, N. Ramya, Rohit Raja
  Study and Analysis of Modified Mean Shift Method and Kalman Filter for Moving object Detection and Tracking,Published in 3rd International Confernce on Computational Intelligence and Informatics (ICCII-2018), held during 28-29 Dec 2018.

**SREYAS INSTITUTE OF
ENGINEERING AND TECHNOLOGY**

DEPARTMENT PLACEMENTS

EPAM CSR Team has launched a volunteer IT Vacation program for engineering students at their Hyderabad office. This volunteer vocational/career guidance program helped our students to get to know more about current Technology, Business trends and Practices that are followed in an IT industry. This immensely helped them to choose right career paths down the road.

EPAM VISIT

PLACEMENTS

TATA CONSULTANCY SERVICES

"Keep evolving, keep thinking, keep pushing yourself. Stay on top of it."

Faculty of Computer Science & Engineering as advised by the HOD actively involved in assisting Campus recruitment Drive conducted in the campus.Faculty assisted the recruitment team in organizing and conducting of screening tests such as written tests, debates,etc. The recruitment team expressed their regards to the department for timely support in early completing the selection process.

Hearty Congratulations to students of 2018-19 batch who got selected by

Sports Meet

SPORTS INCLUDES ALL
FORMS OF
COMPETITIVE
PHYSICAL ACTIVITY OR
GAMES
WHICH THROUGH
CASUAL ARE
ORGANISED
PARTICIPATION
AIM TO USE MAINTAIN
OR IMPROVE
ABILITY AND SKILLS
WHILE PROVIDING
PARTICIPANTS.

Traditional Events

FESTIVALS ARE HAPPY
PLACES, AND YOU
DON'T REALLY WANT
TO ENJOY THEM ON
YOUR OWN.
SREYAS IS PLACE
WHERE YOU GET IT.

SREYAS INSTITUTE OF TECHNOLOGY PRESENT YOU

ANNUAL DAY

A Day To Be Remembered

MARCH 2019

ALL ABOUT ANNUAL DAY

SHRAVAN PAKALAPATI

EKNATH KIRAN

DINKER KALVALA

STUDENT PROJECTS

SMART HOME AUTOMATION THE FARM OWNER

Prepared by KROMA CLUB

SMART HOME

SMART HOME AUTOMATION HUB WITH MQTT PROTOCOL

Today people are looking at ways and means to better their life-style using latest technologies that area available. Any new facility or hope appliance that promises to enhance their life-style is grabbed by the consumers. The more such facilities and appliances are added, it becomes inevitable to have easy and convenient methods and means to control and operate these appliances. Conventional wall switches are located in different parts of a house and thus necessitates manual operations like to switch on or off these switches to control various appliances. It gets virtually impossible to keep track of appliances that are running and also to monitor their performances.

SUBMITTED BY
M.GOURI (15ve1a05d7)
K.DIVYA (15VE1A05E4)
CH.HARSHAVARDHAN (15VE1A05C9)

The Farm Owner

FOOD GRAINS AND PULSES BY OUR WEBSITE

f 𝕏 in ▶   📞 9515875709   ✉ nagellisnigdha97@gmail.com

The farm owner

HOME   ABOUTUS   PRODUCTS   CART

smallholder farmers who produce much of the world's food are often the poorest

Today people are looking at ways and means to better their life-style using latest technologies that area available. Any new facility or hope appliance that promises to enhance their life-style is grabbed by the consumers. The more such facilities and appliances are added, it becomes inevitable to have easy and convenient methods and means to control and operate these appliances. Conventional wall switches are located in different parts of a house and thus necessitates manual operations like to switch on or off these switches to control various appliances. It gets virtually impossible to keep track of appliances that are running and also to monitor their performances.

SUBMITTED BY
N. Snigdha (15ve1a05g0)
M.Bhashitha(15VE1A05F5)
P. Kalyan (16ve5a0518

Message to students

by Harshith sheggam

"I'm always excited to go to college despite the workload. Staying positive is the secret"

-by students

Graduation day brings with it a roller coaster of emotions for grads and their families alike. It's a time of celebration and achievement. There is reflection on past trials and successes as well as hope for the future.

As a relative or close friend of the grad, you've already done your job of shaping their mind and filling their heart. Now it's time to take a step back and let them shine. All their hard work has trained them for what is to come.

CODE CHAMPS

I AM EXTREMELY HAPPY ABOUT THIS . THE 1 ST PRICE I SEE IT AS A WAY CREATE SOMETHING I ENJOY BEGIN CREATIVE AND ABLE TO TAKE CONCEPT MOVE IT TO A POINT EXTREMELY

THE GAIN IS OFTEN AN AWARD OR RECOGNITION EACH SERVES AS A CATALYST TO MOTIVATE INDIVIDUALS TO PUT FORTH THEIR BEST .

INITIATIVE BY CSE DEPT

THIS IS AN INTUIT CREATIVE THINKING BY CSE DEPARTMENT TO BRING ALL THE TALENTED STUDENTS TOGETHER AND THE COMMUNITY TO FIND A NEW TANGLED SOLUTION TO A PERSISTENT EDUCATION PROBLEMS-INTUIT

THE SPIRIT OF COMPETITION TO WIN OR NOT TO WIN I AM VERY HAPPY AND THANK FULL FOR CONGRATULATING ME TO BE IN 3 RD PLACE THROUGH THIS COMPETITION I REALIZED THAT I SHOULD FOCUS ON PROGRAMMING TO BE IN FIRST PLACE

A MESSAGE FROM THE EDITORIAL

By S.Pallavi

This is fourth issue of Tech Talk CSE department magazine. As a coordinator it was a challenging to not only live up to the standards but also set new . Tech talks is all about the technology that inspires students to do something that leaves an ever lasting mark on the world of technology would like to thank every member of the magazine team with out their contribution this issue would not have been possible.

A MESSAGE FROM THE STUDENT EDITORIAL

By Sheggam Harshith

Sreyas institute of Engineering and Technology it's been 2 year i have studied here every day is a new challenge a new experience learning new thing exploring been a part of my academics   magazine could be a memory to your college contributions .

Everyday digital media becomes more important as a means of receiving producing sharing and broadcasting information There is no doubt that digital publications have always been a great option that provides a whole new world for magazine design it been a great pleasure designing the magazine and helped me to explore new things.
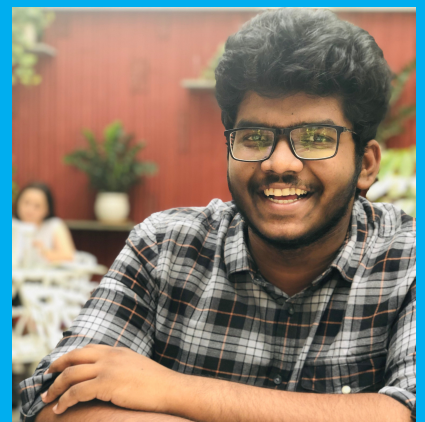
> **My mission in life is not merely to survive, but to thrive; and to do so with some passion, some compassion, some humor, and some style.**

S.Pallavi