



VOL 9 | DECEMBER 2018



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING







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#### Federal Institute of Science and Technology (FISAT)®

Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University & MG University Hormis Nagar, Mookkannoor P.O., Angamaly-683577, Kerala,

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#### **VISION**

To become a centre of knowledge in Computer Science and Engineering, inspiring and promoting young professionals into becoming updated, innovative contributors to the society.

#### **MISSION**

- To foster a curiosity towards learning, making creative use of knowledge resources.
- To provide value based insights towards moulding updated and innovative technocrats with social commitment and leadership.
- To create opportunities for research, entrepreneurship, and higher studies among students and faculty.







Mr. Paul Mundadan Chairman. Governing Body FISAT

Education is not mere accumulation of facts; it is knowledge imbued with wisdom and ethics. Fast proliferating technological innovations and audacious career objectives demands strong and smart engineering learning, laying heavier emphasis on practical knowledge, to facilitate the students to master the entire gamut of skills required of a successful professional. Computer Science department has always been in forefront, and has poised a quantum leap in the development of quality professional education in the country.

It gives me immense pleasure in joining their endeavours for the release of the 9<sup>th</sup> volume of ICON '18, the annual newsletter. It recapitulates all departmental activities and milestones accomplished, exemplifying the talents and hard work put by the staff and students.



Dr. George Issac Principal, FISAT

#### Warm Greetings!

There is no skepticism that pertinacious hard-work and indefatigable determination never pays off and this is what takes you to the pinnacle of success. FISAT has always stood above the rest, be it in technical excellence, in social commitment, its pedagogies and what not.

Department of Computer Science is here again with another issue of ICON'18, the 9<sup>th</sup> volume of annual department newsletter. My heartfelt wishes and congratulations to all faculty and students of computer science department, for procuring exuberant success in all their endeavours, setting up hallmark for the batches yet to come.



Dr. C Sheela Vice-Principal

Providing ample opportunities in engineering education is one of the most fundamental obligations we owe to our students because in FISAT we are driven by the belief that every student deserves a high quality education. The joy and experience shared on our campus ensure the growth and development of the overall personality of all the students. Education is not an act of process of growth. We have excelled in every initiative that we undertook and we have stood together in facing the challenges in realizing quality education. I congratulate the team of students and the faculty for their tireless efforts that have come to fruition in the form of this Newsletter.



Dr. K S M Panicker Director (Academics)

In this dynamic and vibrant modern era, engineering education has become a conglomeration of underlying concepts, practical expertise, promotion of all inclusive research and development, inculcation of entrepreneurial attitude and delivery of competent engineers with ethics, moral and intelligence. The onus of this lies in every FISATians. I appreciate computer science department for their poignant accolades in academics and co-curriculum over the years.

I am happy to learn the unleashing of yet another volume of ICON'18, and extend warm wishes to the department in all its upcoming ventures.



Dr. Sunny Kuriakkose Dean (Student Affairs)

It gives me immense pleasure to pen a few words as prologue to the newsletter of Computer Science and Engineering Department. Empowerment of students for their overall development through education is the motto of our Instituition. Today education apart from acquiring knowledge also means the acquisition of knowledge and skills, building character and improving employability of our young talent. I take this opportunity to congratulate the editorial board for bringing out this magazine as per schedule, which itself is an achievement considering the effort and time required.



**Dr. Prasad. J. C.**Professor & Head CSE Dept.

#### **HOD'S Desk**

Congratulations CSE team for publishing 9<sup>th</sup> edition of newsletter ICON 2018. I would like to remind you about two major incidents of the year 2018.

The first incident was the experience of an abnormally high rainfall from 1<sup>st</sup> June 2018 to 19<sup>th</sup> August 2018 which resulted in severe flooding in our state after a century. Our academic time table was disturbed and we were forced to change or cancel many activity plans of the odd semester of 2018. Our staff and students participated in rehabilitation activities due to flood and once again we have proved the commitment to society. I take this opportunity to thank and appreciate the management, staff and students for the timely support with finance and manpower for various activities due to flood.

The second incident is that Computer Science & Engineering Department is in the process of trying for the NBA accreditation activities. As part of this, we have made changes in the teaching and learning process with outcome based education (OBE) method. So we have restructured our Department Committee as Department Quality Assurance Cell and Course Assessment Committee to ensure the proper implementation of quality education. The purpose of these committees are described in this newsletter. I request you to utilise the services of these committees for improving the quality of service.

We need to ensure good discipline and dedication to achieve targets in our life. There is no substitute for hard work to get success in life. Let's work together to realise the good dreams of our life by fulfilling the responsibilities and duties of our life.

Wish you a wonderful and happy new year 2018.



**Dr. Jyothish. K. John** Asst. Professor, Senior Grade

#### **EDITORIAL NOTE**

Greetings!!!

"So powerful is the light of unity that it can illuminate the whole earth."

The year 2018 was not that great for the people of Kerala. In August 2018, severe floods affected the state of Kerala, due to unusually high rainfall during the monsoon season. It was the worst flood in Kerala in nearly a century. Over 485 people died. About a million people were evacuated. Kerala, with its unity and immense courage faced flood. Organizations including Educational institutions in Kerala have stood in front to rehabilitate the affected people and providing them with financial assistance. FISAT stood in front to help the affected people nearby by contributing labour and financial aid. The department also contributed remarkably in all the ventures put forward by the college to help the affected faculty and students. The CSE staff provided financial aid to the affected colleagues and gave a significant contribution for constructing two new houses for flood-affected among the staff and students. Thus we could stand together with the community to give a message of harmony and love.

The other activities of the CSE department went as usual but more emphasis was given to the activities with social reach. Mantra 2018 was conducted and the final year students exhibited their projects. Students of CSE won several prizes in co-curricular activities including SIH Hackathon. The department prepared Self Assessment Report as a step towards moving to NBA accreditation. A lot more activities are detailed in the current volume of ICON. Let us all put together our efforts to the bright future of department and Institution!!

#### CSE DAY - 'MANTRA 2018'

The Annual CSE Day – Mantra 2018, was conducted in a grand manner on April 7<sup>th</sup> 2018, in association with THYRA–The association of computer engineering students. Technical Talk, Launching of Shagheej Memorial Award, CSE Alumni Meet, Inauguration of CSE Museum, Final Year Project expo, Celestia 2018 by ACM etc were the major events.



Inauguration of Final Year Project expo



Memento Awarded to Mr. Jugunu George by Dr. Arun Kumar for the technical session



Project Exhibition Visit



Prize Distribution

# **Shagheej Memorial Fund and Coding Competition**

Shagheej Memorial Award was launched on 7th April 2018 in memory of Lt Shagheej (2013-17 pass out batch). The Shagheej Memorial Fund was initiated by his classmates during the CSE Alumni meet. This will be awarded to the winners of Shagheej Memorial coding competition every year. Parents of Lt. Shagheej were also present on the ceremony and they contributed an amount of Rs. 50000/- to the Memorial Fund.



Shagheej Memorial Award Inauguration



First Alumni Meet

#### Fun event Nautilus 2k18 TRAIL OF BLOOD

Nautilus 2018, Inter College Tech fest, organized by FISAT was held on 05<sup>th</sup> and 06<sup>th</sup> February 2018. Department of Computer Science and Engineering conducted various events in accordance with the envisaged programmes of the Nautilus. The prize winning event was organized by students of 2016 admission year (Batch A).

The theme of the event was Investigation. The team concentrated on testing various skills of the participants such as Listening, Visual Observation, Hearing, Identification by touch, Time Management, Group Discussion, etc. The game was to be played by a team of 4 and their objective was to find out the exact conclusion about the incident. Every team was given a case which was closed mid way during its investigation. One Team could play at a time. The game started by splitting the team and testing their individual skills. Member 1 was taken to the spot regarding the crime/incident for observation. He/She could walk around the place and observe the scene. However, any kind of misplacement of objects or photography was not permitted. Member 2 was blindfolded and given a set of objects put in plastic bags, which were either collected from the spot or the victim's personal belongings. Member 3 was given the opportunity to hear from the others regarding the incident including the victim's family, friends and other related individuals. Member 3 was tested on his/her listening skills. The organizing team had a list of recorded voices of people they suspected. The player could select 3 from them and play it multiple times. Member 4 was given the First Investigation Report and other medical references found out during the initial phase of investigation. The player could read through or extract details from them. Every member was accompanied by one of the organizing team member to their respective places. All the players were open to the sense of smell at their respective places.

Finally, all the team members were brought together for discussion. They could exchange information and details regarding their observations. There was no time restriction on individual analysis for any of the players particularly. However, the team had a clock ticking for the entire process to be completed and submitting their conclusion.

The organizing team noted down the answers

and conclusion of all the teams that played, along with the total time they took to submit the report. The team with the correct/closest answer and least time taken, was chosen as the winner

**OUTCOME**: A total of around 50 teams registered and played the game. There were teams who reregistered and played the game multiple times. However, the story line was changed for the repeated players. The organizing team covered up the expense regarding the setting up of the event and gained a profit of about Rs.5500.

# Faculty Development Programme on "Design and Analysis of Algorithms"

Seven day Faculty development programme on "Design and Analysis of Algorithms" was conducted from 8<sup>th</sup> December to 15<sup>th</sup> December 2018. The programme provided a basic introduction about the concepts in Algorithm Efficiency, Mathematical analysis for Recursive and Non - recursive algorithms, Brute Force Technique, Divide and Conquer methodology, Greedy strategy, Dynamic Programming and NP problems. The entire sessions were handled by Prof. Anil Kumar S, Assistant Professor, Department of CSE, Government Engineering College, Painavu.





#### STUDENT ACHIEVEMENTS

Mr. Akhil Joy, Ms. Mehjebin Mujeeb of S6 CS won the best project award for their work titled 'Disease Diagnosis Machine' at the e-Yantra National Finals held on 22nd-24th March 2018 at IIT Bombay. The project was awarded under *Most Realistic* Category.

Ms. Chandana. S and Mr. Ahamed Sinan of S6 CS participated in the Regional Finals of the e-Yantra Idea Competition held at FISAT on 21<sup>st</sup> February 2018.

**Ms. Nandini Menon** of S6 CS B was awarded as the outstanding sports person of the year 2018, by APJ Abdul Kalam Technological University, Kerala.

Ms. Anagha Zacharia and Ms. Fathima Salim of S6 CSE A became runners up in the D-zone intercollegiate chess championship organized by KTU.

**Mr. Ajay Diji** of 2017 admission participated in the KTU South Zone basket ball tournament at SRM college Chennai, in the year 2018.

Mr. Ajay Diji and Mr. Joe Meleth of 2017 admission won third prize in the inter-zonal basket ball tournament at Mohandas College of Engineering in the year 2018.

Mr. Ajay Diji and Mr. Joe Meleth of 2017 admission won first prize in the zonal basket ball tournament held at Model Engineering college, Thrikkakkara in the year 2018.



Mr. Akhil Joy



Ms. Mehjebin Mujeeb



Ms.Chandana. S



Mr. Ahamed Sinan



Ms. Nandini Menon



Ms. Anagha Zacharia



Ms. Fathima Salim



Mr. Ajay Diji



Mr. Joe Meleth

#### **GATE Qualified Students**

## Name Class

Ananthakrishnan M A CSE A(2013 Admission)
Heera Mahesh CSE A(2013 Admission)
Divya Jose CSE A(2014 Admission)
Lakshmi Priya CSE A(2014 Admission)
V P Vishnu Prasad CSE B(2014 Admission)



Ananthakrishnan M A



Heera Mahesh



Divya Jose



Lakshmi Priya



V P Vishnu Prasad

#### **Best Main project**

**Fall Detection** by Soniya Johny, Visakh Ajith, Sooraj Balan, Noah Paul, S8 CS B.

#### **Best Second Main project**

**Video Colorization** by Aagi Mariam, Allan Jojo, Divya Jose and Lakshmi Priya, S8 CS A.

#### **Best Mini project**

**Book Summarization** by Mariet Sigy, Soniya Johny, Rizwan T. S, Manu Poduval, S8 CS B.

#### **Best Second Mini project**

Aireal Analysis of railway tracks to calculate friction using thermal imaging by Anoh Ignatious, Arun Anand, Edwin Biju, Gautham Nair, S8 CS A.

## Winners of Nautilus Best Event Class – S4 CS A ACM Celestia 2k18 QUIZ Winners

#### **First**

Arjun. R. Nath and Abraham. J. Roy of S8 CS A.

#### Second

Sreehari K. V. and Vishnu Prasad of S8 CS B.

## Shagheej Memorial Coding Competition SMRITHI 2k18 Winners

- 1. Ahamed Sinan, Harigovind, S6 CSA.
- 2. Thomas Pauly, Sreehari CP, S6 CSB.
- 3. Mohit Rajan, Sandeep R, S4 CS B.

## Best Outgoing Student award for 2014- 2018 batch was presented to Divya Jose of S8 CS-A



# KTU Sponsored Faculty Development Programme on "Machine Learning"

Five day Faculty development programme on "Machine Learning" was conducted from 23<sup>rd</sup> July to 27<sup>th</sup> July 2018 in collaboration with Kerala Technological University (KTU) to introduce several fundamental concepts and algorithms for machine learning. The Programme received an overwhelming response with nearly 30 internal as well as external participants. The main objective behind organizing this FDP was to to make the faculty members understand the basics of machine learning algorithms, techniques and their applications and to enhance their teaching skills with deep knowledge. This Faculty Development Program was intended to provide hands on experience on various machine learning tools by which a faculty can guide their students in developing innovative projects that meets the need of the industry. Technical Sessions were handled by Dr. Sreeraj. M, Mr. Mahesh C, Mr.Pankaj Kumar G and other external faculties.



## COMPUTER MUSEUM INAUGURATION

Inauguration of Computer Museum was done by Dr. Sunny Kuriakose, Dean, Student Affairs in CSE Department Library on 7<sup>th</sup> April 2018. Computer Museum was worth a treat for all. It included a lavish display of both old and new electronic components, particularly PC components and rare processors.





#### **Faculty Achievements**



Dr. Arun Kumar M N

#### Details of papers presented in International Journal

SI. No	Authors (As published in the paper)	Title	Journal with impact factor	Year
1.	Dr.Arun kumar M.N, Dr.Anil Kumar M N, Dr.H S. Sheshadri		Current Medical Imaging Reviews. SCI Indexed Journal (I.F=0.5)	2018

#### Recognition and Awards (Year 2018)

- \* Recognized as a Ph.D Research supervisor by KTU
- ❖ Recognized as a Ph.D Research supervisor by VTU, Belgaum
- Guiding two research scholars (Pankaj Kumar G, Assistant Professor, Dept. of CSE and Anitha T Nair, Assistant Professor, Dept. of CSE, FISAT) under VTU, Belgaum, Karnataka
- **❖** Evaluated 2 Ph.D Thesis of VTU, Belgaum and evaluated 1 Ph.D Thesis of University of Mysore (2018).
- Was an External examiner for Ph.D viva-voce examination, VTU Belgaum and University of Mysore, Mysore

Approved Doctoral Committee Member (External) (APJ Abdul Kalam Technological University, Kerala)

Sl No	Research Candidate	Year of Registration	Research Centre
1	ASHA S	2016	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
2	Susmi Jacob	2016	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

## JOINT RESEARCH PUBLICATION /RESEARCH ACTIVITIES (2018)

- **❖** Joint Publication/Research activities with BMS College of Engineering, Bangalore
- **❖** Joint Publication/Research activities with PES College of Engineering, Karnataka
- **❖** Joint Publication/Research activities with SJ College of Engineering (SJCE), Mysore
- Joint Publication/Research activities with inter-department (Dept. of ECE, FISAT)

## REVIEWER OF INTERNATIONAL JOURNAL (2018)

❖ Reviewer of International Journal of Big Data Intelligence, Inderscience Publisher

# REVIEWER OF INTERNATIONAL CONFERENCES (2018)

- Reviewer of ICERECT-2018 Conference (Springer), PES College of Engineering, Mandya, Karnataka.
- Reviewer of 8th International Conference on Advances in Computing & Communications ICACC-2018, RASET, Cochin



Ms. Siya Mol presented a paper titled 'A comparative analysis of image encryption techniques using chaotic map and DNA cryptography' in the International conference on Recent advancement in Engineering

Technology (ICORETECH 2018), at LBS college of Engineering, Kasaragod, during 18-12-2018 to 19-12-



Mr.Jestin Joy published a paper titled 'Developing a bilingual mobile dictionary for Indian Sign Language and gathering users experience with Sign Dict' in the Assistive Technology International Journal, 2018.

Mr.Jestin Joy, Assistant Professor,won Second prize for Poster Presentation held at ACM Compute 2018 at Punjab Chitkara University, Chandigarh.Mr. Jestin Joy, Assistant Professor, has been selected as Co-Principal investigator Funded Research Project by CeDS, Trivandrum on May 2018.



Jyothish K John, Assistant Professor (Senior Grade) was awarded Ph.D. in Computer Science for his Thesis 'Router Policies to Improve QoS for Real Time Transfers in Internet' from Noorul Islam Center for Higher Education (NICHE) Kanyakumari, on 24<sup>th</sup> October 2018.



Paul P Mathai, Assistant Professor (Senior Grade) was awarded Ph.D. in Computer Science for his Thesis 'An Efficient Data mining Algorithm Based on Item sets Frequency And Priority Using Distribution Model' from Noorul Islam

Center for Higher Education (NICHE) Kanyakumari , on  $17^{th}$  November 2018.

Mr. Paul. P. Mathai published a paper titled 'Taming of Result Prediction Based On IQ and EQ' in the International Journal of Current Engineering and Scientific Research(IJCESR), VOLUME-5, ISSUE-6,2018.

#### List of Faculty with 100% Result

#### B.Tech

- 1. **Ms. Nisha Rajeev**(Artificial Intelligence-S8 CS B 2013Ad. Year)
- 2. **Ms. Siyamol Chirakkarottu** (Data Base Management Systems -S6 EC A 2014 Ad. Year)
- 3. **Mr. Anuranj P**(Software Architecture S8 CS A 2013 Ad. Year)
- 4. **Ms. Merin Cherian** (E-commerce S8 CS A 2013 Ad. Year)
- 5. **Ms. Siyamol Chirakkarottu** (Data Communications S6 CS B 2015 Ad. Year)
- 6. **Ms. Reshmi R**(Graph Theory S6 CS B 2015 Ad. Year)

#### M.Tech Adm.Year (2015) II Semester

- 1. Dr. Arun Kumar M N, Algorithm Analysis and Design
- 2. Mr. Pankaj Kumar G, Advanced Computer Networks
- 3. Ms. Hema Krishnan, Advanced Database Concepts

#### **III Semester**

- 1. Dr. Arun Kumar M N, Data Compression
- 2. **Ms. Meera Treesa Mathews,**Advanced Information Security Concepts

#### M.Tech Adm. Year (2016) I Semester

- 1. Ms. Meenu Mathew, Advanced Data Structures
- 2. Ms. Hema Krishnan, Operating System Design
- 3. Mr. Pankaj Kumar G, Computer System Design and Architecture
- 4. Ms. Lakshmi S, Data Mining Concepts

#### **II Semester**

- 1. Dr. Arun Kumar M N, Algorithm Analysis and Design
- 2. Mr. Pankaj Kumar G, Advanced Computer Networks
- 3. Ms. Chethna Joy, Computer Security and Applied Cryptography
- 4. Mr. Jestin Joy, Natural Language Processing
- 5. Ms. Shimy Joseph, Advanced Database Concepts

#### HOUR OF CODE PROGRAMME

Hour of code is a global movement by Computer Science Education week and code.org, reaching tens of millions of students in 180+ countries through a one-hour introduction to computer science and computer programming. ACM student chapter of FISAT has organized this programme for the students of Santhome Central School, Mookkannoor on 7th February 2018. Dr. Prasad J.C, Head of CSE department inaugurated the programme. The ACM members took classes on Scratch and the session was very funny, knowledgeable and interactive for the students.

#### MACHINE LEARNING WORKSHOP

FISAT ACM student chapter organized a workshop on Machine Learning. It was a one day handson workshop about Machine Learning concepts and its limitations. The workshop was conducted on February 5<sup>th</sup> Monday from 9 am to 4.30 pm. The session was led by Mr. Praseed Pai KT, Senior Architect, UST Global.

#### Internship activity

- ❖ Internship activity on 'Machine Learning' was conducted from 2<sup>nd</sup> July to 30<sup>th</sup> July 2018 for selected B. Tech students.
- ❖ Internship activity on 'Web develop' was conducted from 2<sup>nd</sup> July to 30<sup>th</sup> July 2018 for selected B.Tech students.
- ❖ Bridge courses were conducted during the first three days of the odd semester which helped the newly joined to be familiar with the new topics and practices of the professional education.

#### **INDUCTION PROGRAMME**

A ten days induction programme was held from Aug 1 to 10, 2018 for first year students(Admission year 2018) based on the guide lines proposed by AICTE. Various activities were conducted as part of the induction programme in which the students were fully engaged throughout the day for the entire duration of the programme. These activities include:

Creative arts: It helps the students to develop a

sense of aesthetics and creativity.

**Universal Human Values**: It helps the students to explore oneself and allows one to experience the joy of learning, take decisions with courage. It consists of a 3 hour session handled by experts in that area.

**Library and literary sessions:** These activities includes reading, writing, debating etc.

**Visit to Local Areas:** Students were taken to orphanages in the locality. This helps them to familiarize with locality and also exposed them to under privileged.

**Lecture from eminent people :** It was mostly motivational talks by eminent people.

**Proficiency Module:** It consists of crash courses related to basic sciences and programming.

**Familiarization with the Department:** Students were taken to all Laboratories, workshops, Department libraries etc and also introduced them to the faculties in the department.

# Google Cloud Platform – ACE ciruit program

CSE department got an opportunity to partner with Google's GCP-Associate Cloud Engineer pilot plan. The objective of the program is to inspire young computer science students for a cloud-first world via blended training model and to build a pool of certified trainers/faculty to deliver approved GCP courses to students. The three-phase GCP course prepares students for Associate Cloud Engineer Certification. Blended learning where the first two phases will be via online learning. Phase 3 includes self-paced labs and prep for Associate Cloud Engineer certification. These courses introduce participants to the comprehensive and flexible infrastructure and platform services provide by Google Cloud Platform. Through a combination of presentations, demos, and hands-on labs, participants explore and deploy solution elements, including infrastructure components such as networks, systems and applications services. This course also covers deploying practical solutions including securely interconnecting networks, customer-supplied encryption keys, security and access management, quotas and billing, and resource monitoring. The students got access to courses 1-5 in the Architecting with Google Cloud Platform specialization on Coursera, free of charge (\$ 150 value). They were also given access to Qwiklabs, a Google training tool, free of charge (a \$55+ value) for extra hands-on practice. Another benefit of the program was that first 500 students will get 100% discount voucher to take the Associate Cloud Engineer Certification (\$125 value). Others get 50% discount voucher.

The course was intended for final year students. Among the 67 students enrolled 45 students completed the entire course. The majority of the final year students made us proud by completing the courses ahead of time.

#### **Best Main Project- Fall Detection**

This project titled 'Fall Detection' aims at solving one of the real world problems which is being faced today. One of the biggest challenges in modern societies is the improvement of healthy aging and the support to older persons in their daily activities. In particular, given its social and economic impact, the automatic detection of falls has attracted considerable attention in the computer vision and pattern recognition communities. Although the approaches based on wear able sensors have provided high detection rates, some of the potential users are reluctant to wear them and thus their use is not yet normalized. Accidental falls are inevitable and in these days proper countermeasures have to be taken in order to avoid any serious damage. This project detects these accidental falls and takes appropriate counter measures. One of the main areas where this technology can be applied is at Old age homes and at homes where the elderly are often alone.



Soniya Johny



Sooraj Balan



Visakh Ajith



Noah Paul

#### **Best Second Main Project- Colorization**

Today, colorization is done by hand in Photoshop. A picture can take up to one month to colorize. It requires extensive research. A face alone needs up to 20 layers of pink, green and blue shades to get it just right. This project presents a convolutional- neural- network based system that faithfully colorizes black and white photographic images as well as videos without direct human assistance. The system is implemented as a feedforward pass in a CNN at test time and is trained on over a million colour images. The final classification-based model generates colorized images that are significantly more aesthetically pleasing than those created by the baseline regression -based model, demonstrating the viability of the methodology and revealing promising avenues for future work. This work demonstrates realistic colorizations of many different types of images, including black-and-white photography from over a hundred years ago, and can extend these concepts in colourizing black- and-white videos also.



Aagi Mariam





Allan Jojo



Best Mini Project-Book Summarization

This project is capable to summarize a book given as input by the user using natural language processing. The system can further be updated and enhanced in order to cover more operation. Summarization is the process of reducing a text document with a computer program in order to create a summary that retains the most important points of the original document. Technologies that can make a coherent summary take into account variables such as length, cohesion, position and word informativeness. The main idea of summarization is to find a representative subset of the data, which contains the information of the entire set. Summarization technologies are used in a large number of sectors in industry today. An example of the

use of summarization technology is search engines such as Google. Other examples include document summarization, image collection summarization and video summarization. Document summarization tries to automatically create a representative summary or abstract of the entire document by finding the most informative sentences.





Mariet Sigv

Soniya Johny





Rizwan T.S

Manu Poduval

# Best Second Mini Project-Aerial analysis of Railway tracks to calculate friction using thermal imaging





Anoh Ignatious

Arun Anand





Edwin Biju

Gautham Nair

#### **Smart India Hackathon 2018**

Students of the department (2015-2019 batch) - Aiswarya J G, Aiswarya S, Anjitha Sasi, Cilna Joseph, Crissmol Joy, Heera Johnson along with their mentor Anuranj. P, Assistant professor, Computer Science and

Engineering department have participated in the Smart India Hackathon 2018 held at Banarus, Hindu University, Varanasi. Problems were released by various ministries and departments of central government. The team has undertaken a problem put forward by Ministry of Irrigation, government of Andrapadesh entitled "Mismatch between water connections with their respective survey numbers by revenue department's data with water resources department's data". Team was short listed for grand finale as one among the 8 teams all over India.





Hackathon Participants at Banarus, Hindu University, Varanasi

#### Formation of Department Quality Assurance Cell [DQAC]

Quality assurance comprises of administrative and procedural activities implemented in a system. It is the systematic measurement, comparison with a standard, monitoring of processes and an associated feedback loop that confers error prevention. The Department Quality Assurance was formed to function in align with the IQAC for achieving the Vision of the College. The Purpose of DQAC include i) Inculcation of quality culture in the department and the development of quality parameters for the activities of the Department. Ii) Creating a student-centric teaching environment conducive to imparting quality education. Iii) Conduct of Academic Audit (internal/external) iv) Creation of quality consciousness among the stake holders etc.

The members of DQAC are Dr.Prasad J C, Dr.Sunny Kuriakose, Dr.Arunkumar M N, Dr.Jyothish K John, Ms.Reshmi R, Dr.Paul Mathai, Mr.Jestin Joy, Ms.Soumya S Raj, Ms.Meera Treesa Mathews, Mr.Rajesh T. R. Earlier Department had a core committee to fulfil the responsibilities of DQAC. DQAC first committee was conducted in the month of November 2017 to discuss outcome based education mode implementation from the academic year 2018 onwards.

20 Christeena Joseph TCS 21 Divya Jose T TCS 22 Divya Siji TCS 23 Elbin John Capgemini 24 Eleina Jose Areekal TCS 25 Gautham Nair Ruby Seven Studios 26 Githin Joseph IBS 27 Indu Prasad Wipro 28 Jeffin T J TCS	PLACEMENT			
Abraham Jeevan Roy Aishwarya Ajith Akash P Manoj TCS Akshay Ajith TCS Akshay Ajith TCS Alisha Josy TCS Ann Rose Antony TCS Ann Esther Joy Ruby Seven Studios TCS Ann Rose Blessen TCS Ann Treesa Paul Qburst TCS Arathi K S TCS TCS Arathi K S TCS TCS Aryun K S Qburst TCS Aswin E Coral Business Solutions Coral Business Solutions TCS Divya Jose T TCS Divya Jose T TCS Blibin John Capgemini TCS Gautham Nair Ruby Seven Studios TCS Gautham Nair Ruby Seven Studios TCS Indu Prasad Wipro Richard Ruby Seven Studios Ruby Seven Studios	Sl.No	StudentPlaced	Employer	
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28 Jeffin T J TCS	26	Githin Joseph	IBS	
	27	Indu Prasad	Wipro	
29 Jinsy George Capgemini	28	Jeffin T J	TCS	
7 0	29	Jinsy George	Capgemini	
30 Kalyani Suresh TCS	30	Kalyani Suresh	TCS	
31 Kurian Paul TCS	31	Kurian Paul	TCS	
32 Lakshmi Priya S TCS	32	Lakshmi Priya S	TCS	
33 Liya Sutherland	33	Liya	Sutherland	
34 Liya Elizabeth Koshy TCS	34	Liya Elizabeth Koshy	TCS	
35 Manu Varghese TCS	35		TCS	
36 Mariet Sigy TCS	36		TCS	
37 Meenakshi M S TCS	37	Meenakshi M S	TCS	
38 Negi Babu TCS	38	Negi Babu	TCS	
39 Nithin K Samsan TCS	39		TCS	
40 Nithya Jacob TCS	40	Nithya Jacob		
41 Niya Varghese Qburst	41		Qburst	
42 Noel Joseph Sam M BYJUS APP	42	Noel Joseph Sam M	BYJUS APP	

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