



TECH BYTES

Department of Computer Science & Engineering

Newsletter-Sept'2022

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CMR INSTITUTE OF TECHNOLOGY
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Vision

To be a center of excellence in computer science and engineering education producing competent professionals for a successful global career contributing to the society.



Dr. Sanjay Jain
(Principal)



Dr. B. Narasimha Murthy
(Vice Principal)

Editorial Note

Once again it is with immense pleasure that I take an opportunity to work on the second issue of 2022 department newsletter. This newsletter mirrors the institution Mission and Vision. This edition highlights activities and achievements that has been captured from April 2022 to August 2022. I hope that this edition makes an interesting read.

Mrs. Sreedevi N

Sreedevi.n@cmrit.ac.in

Mission

- To build a faculty team with industry and academic exposure, capable of molding students into competent professionals, supported by adequate computing and software resources.
- To prepare the students for a global career in computing by enriching the curriculum
- To develop industry relevant programming and soft skills through training programs, vibrant student clubs and student internships.
- To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.

ABOUT THE DEPARTMENT

The department of Computer Science & Engineering has been in existence from the inception of CMRIT in 2000. The department is a recognized research center under VTU and offers doctoral programs in computer Engineering.

The Department of Computer Science & Engineering is permanently affiliated to Visvesvaraya Technological University (VTU), Belgaum and is also recognized by Govt. of Karnataka and approved by AICTE, New Delhi. UG program is approved by the National Board of Accreditation (NBA), New Delhi.

The department aims to provide students with a strong foundation in Computer Science and Engineering and enable them to integrate their knowledge with other disciplines for carrying out innovative discoveries.

Many of the computer science graduates from CMRIT step directly into computer related career positions in both private and government agencies, while some choose to continue their education in graduate degree programs.



MESSAGE FROM HOD

Dr.Sreekanth Prabhu M

It is with immense pleasure that I present to you the department of Computer science and Engineering Newsletter “TECHBYTES” for the second half of 2022. This newsletter highlights the achievements ,awards, publications , patents, recognitions received and the programs organized / participated by the faculty and students of the department of Computer Science and Engineering.

This issue provides the development of the department that took place during April-2022 to August-2022. I hope that this newsletter inspires you with the notable performance of the department. We look forward for your constant support in every aspect to achieve the Vision and Mission of the department and Institution.

Technical Events organized by the department

SI No	EVENT	DATE	TOPIC	CONDUCTED BY	SPEAKER
1	Quiz	20-3-22	Awareness on Cybersecurity	CMRIT, Bangalore.	Cyber security Center Of Excellence
2	FDP on JAVA	21-3-22 to 25-3-22	P3 training on Java	CMRIT , Bangalore.	Prof Gomathi and team
3	Expert talk	6-4-22	Security aspects in cloud	Thomson Reuters, Bangalore	Mr.Akhil Dandamudi, Senior software development engineer, Thomson Reuters, Bangalore
4	Expert talk	13-4-22	Expert Talk on "Innovation Through Robotic Process Automation"	Volvo Group, Bangalore	Ms. VAISHNAVI SURESH, Automation engineer - RPA, AI , ML and Cloud Automation, Volvo Group, Bangalore
5	Expert talk	13-4-22	Demystifying Data Engineering	Azdev Lead, India	Mr.Vishwas Narayana, Azdev Lead, India
6	Expert talk		Block Chain	CMRIT, Bangalore.	Mr. Shashank Bishnoi, Chief Operating Officer, Snipertex Pvt. Ltd., Bengaluru, Mr. Abhay Kumar, Chief Executive Officer, Snipertex Pvt. Ltd

Technical Events organized by the department

SI No	EVENT	DATE	TOPIC	CONDUCTED BY	SPEAKER
7	Expert talk	1/6/22	Configuration of network security using Paloalto Firewall: live demonstration	CMRIT,Bangalore.	Koti Reddy, Founder, of SANS Bound solutions & Koti concepts, Bangalore
8	Webinar	15-6-22	Converting Projects to papers	CMRIT,Bangalore.	Dr. Shreekanth M. Prabhu, Professor & HoD, CSE, CMRIT, Prof. G. Radhakrishnan, Asst. Prof., CSE, Dr. Preethi Sheba Hepsiba, Associate Professor, CSE
9	Expert Talk	5-4-22	Machine Learning for Cybersecurity	CMRIT,Bangalore.	Dr. J. Somasekar, HOD, Professor & HOD, CSE, Gopalan College of Engineering and Management, Bangalore.
10	Expert Talk	6/7/2022	software security basics for cutting edge cloud computing projects	CMRIT,Bangalore.	Dr. Jyothi N M, Associate Professor, Dept. of CSE, K L University, Vijayawada
11	Expert Talk	3/8/2022	Application of Blockchain Technology in Research & Innovation	CMRIT,Bangalore.	Mr. Naveen Saraswat, CEO, Co-Founder of Sodio Technologies Private Limited,
12	Expert Talk	30/8/2022	Understanding Technology Readiness Level(TRL)- Stages & Implications in Innovation Development	CMRIT , Bangalore.	Mrs. Kavitha Karthikeyan, Prince Shri Venkateshwara Padmavathy Engineering College, chennai

Training conducted by FOSS Cell

SI No	DATE	TRAINED ON
1	6/4/22 and 7/4/22	Version control using Git and GitHub for ECE and MCA departments
2	21/4/22	Version control using Git and GitHub for ISE department
3	28/4/22	Version control using Git and GitHub for EEE and CIVIL departments
4	19/5/22	Version control using Git and GitHub for CSE department
5	15/6/22	Contribution of FOSS for education Research
6	16/6/22	Open source contributions in Innovation projects



FOSS CELL
CMR INSTITUTE OF TECHNOLOGY

CONTRIBUTION OF FOSS TO EDUCATION RESEARCH

15 JUN

MR. SHIJIL T V
PRESIDENT PSMK

PARTICIPATION CERTIFICATES

TIME: 1P.M. - 2P.M.
VENUE: CPL LAB-2,
BASIC SCIENCE BASEMENT

EVENT COORDINATORS
KEVIN: 9620595250
SHRADDHA: 8073610925

SCAN TO REGISTER

CLUB ACTIVITIES

SL NO.	CLUB NAME	NAME OF THE EVENT	DATE OF THE EVENT
1	GeeksForGeeks	GFG APRIL RUMBLE	13/04/2022
2	HackerEarth	PLACEMENT TALKS	17/04/2022
3	MindSpark	Catch the Bug	13/04/2022
4	Ace Club	TechnoBug	27/04/2022
5	HackereEarth	ctrl + intelligent	27/04/2022
6	GeeksforGeeks	Quizical Suspects!	28/04/2022
7	Moziety	Get Set Code v3.0	27/04/2022
8	Moziety	Ready with Moziety	28/04/2022
9	HackerEarth	Answer The Unanswerable	26/05/2022
10	GeeksforGeeks	Mind Scribble on C Language	25/05/2022
11	GeeksforGeeks	GFG May Rumble	26/05/2022
12	Ace Club	Java Hunt	26/05/2022
13	Cybernavts	Bootcamp on C++ and DSA	25/05/2022
14	ACE Club	Cross Data	16/06/2022
15	Mind Spark	Mind Fizz	22/06/2022
16	HackerEarth	Bro Code	22/06/2022
17	GeeksforGeeks	Technical Quiz	29/06/2022



FACULTY PUBLICATIONS

Sl No.	Faculty Name	JOURNAL/CONFERENCE/PUBLISHER	TITLE
1	Dr. Sanchari Saha	Book series "Urban computing with Artificial Intelligence and IoT (Emerging Technology for smart living)" by River Publisher .	Crash Recovery and Accident Prediction Using a IoT Based Black Box System
2	Dr. Preethi Sheba Hepsiba	19th International Conference Humanizing Work and Work Environment to be published in Advances in Intelligent Systems and Computing by Springer (Scopus Indexed) the	Discomfort experienced by students while attending online classes during the pandemic period
3	Ms.Aswathi.S and J.,Suneetha	Book Chapter Published in Soft Computing and Sinal Processing	A Novel Approach to Predict Chronic Kidney Disease of A Prognosticate Kidney Using a Supervised Learning Algorithm
4	Ms.Suneetha.J	ICSCSP-2022	A Novel Approach to Universal Egg Incubator Using Proteus Design Tool and Application of IoT Proteus Design Tool and Application of IoT
5	Dr.P.N.Singh	IEEEExplore	Application of Deep Learning to Improve the Accuracy of Soil Nutrient Classification
6	Ms.Savitha NJ	Eurasian Chemica Communications	Intelligent Identification of RNA-Binding Sites on the proteins using simultaneous network model
7	Ms.Smitha N	ICASIT- 2022	Image segmentation and data abstraction using deep learning
8	Dr.PN Singh, Ms.Sagarika	IEEE 2nd ASAINCON 2022	The Transformers' Ability To Implement For Solving Intricacies of Language Processing
9	Ms.Anjali Gupta	ICRTEM-2022	Prediction of Diabetes in Adults Using Machine Learning Algorithms
10	Dr.G.RadhaKrishnan	IEEEExplore	RGB-D scene classification using an ensemble of convolucional neural networks with softmax aggregation
11	Dr.Shanthi MB	Remote Sensing	Optimal Deep Learning Models for Land use and Land cover Classification in Remote Sensing Image
12	Dr.D.Sudha	IASET Journals	1.Energy and cost optimization mechanism for workflow scheduling in cloud. 2.Detection of Phishing Websites Using Machine Learning

FACULTY PUBLICATIONS

SI No.	Faculty Name	JOURNAL/CONFERENCE/PUBLISHER	TITLE
13	Dr.Manoj Challa	IASET Journals	1.Ensuring privacy of medical data in cloudlet based storage system 2.Detection of Mental Illnesses Using Brain Scans
14	Mr.Anil.D	2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)	Predicting Early Reviewers on E-Commerce Websites
15	Ms.Shyama sree	SAIRAP Conferences will be published on "International Journal of Health Sciences"	An Intelligent Automated Monitoring System Using Video Surveillance Based Recognition
16	Dr.Preethi Sheba Hepsiba	Journal of Institution of Engineers(India): Series B, Springer, India	A Study on the online-offline and blended learning methods
17	Ms.Poonam, Dr.P.Kavitha	2022 Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022)	A Smart resume screening tool for customized shortlisting
18	Ms.Sagarika	2022 Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022)	Chat Application Using Homomorphic Encryption
19	Ms.Navaneetha	2022 Second Global Conference on Recent Developments in Computer and Communication Technologies (GC-RDCT 2022)	CNN Based Deep Learning for Classifying and extracting non noise MR images to detect Brain Tumor
20	Mr.Kartheek	4th International Conference on Computer and Communication Technologies (IC T-2022)	Prediction of Dementia using Deep Learning
21	Dr.Kiran Babu T S	IASET Journals	1.Absorption Light Scattering Model for Improving Image Quality 2.Accident detection and alert system
22	Dr.Kiran Babu T S	Thirteenth International Conference on Advances in Communication, Network, and Computing – CNC 2022	Recognition of American Sign Language using Deep Learning
23	Dr.Shanthi.M.B	IC3T 2022	Use of Deep Learning Approach in Predicting the Gender using Fingerprints
24	Dr.Shanthi.M.B	IEEE conference	Recognition of Indian sign language using images of hand gestures

FACULTY PUBLICATIONS

SI No	Faculty Name	JOURNAL/CONFERENCE/PUBLISHER	TITLE
25	Mr Pratham Majumder	IEEE PhD Edits	Low-Complex & Low-Cost Hardware Modelling of DCVNS Scheme for IoT Applications
26	Mr.Pratham Majumder	IEEE 2022 Global Conference for Advancement in Technology, Bangalore	A Novel Method of Transmitting Text Messages via Images using Chaotic Encryption
27	Mr.Pratham Majumder	2022 19th Annual IEEE International Conference on Sensing, Communication, and Networking (SECON), Brazil	Distributed Decision Making for V2V Charge Sharing in Intelligent Transportation Systems
28	Ms.Sreedevi N	Scopus indexed LNNS Springer proceedings of 10th International Conference in Innovations in Computer Science and Engineering (ICICSE-2022)	"A Study on Accident Detection systems using Machine Learning"
29	Dr. Shreekanth M Prabhu ,Dr.M.Raja	Book chapter- Springer	New Architecture to facilitate the expansion of E-Government
30	Mr.Anil.D	2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)	Disease detection on the leaves using Image Processing
31	Dr.P.N.Singh	Mysurucon-2022	Flipping of Computer Pages Using Eye Blinks
32	Ms.Sagarika	ICDSIS - 2022 (IEEE Conference)	Preserving the Privacy of Medical Data using Homomorphic Encryption and Prediction of Heart Disease using K- Nearest Neighbor
33	Dr.Jagadishwari	Third International Conference on Advances in Physical Sciences and Materials 2022	Deep Learning Models for Covid-19 diagnosis
34	Dr.Jagadishwari	Third International Conference on Advances in Physical Sciences and Materials 2022	Empirical analysis of Machine Learning models for credit card fraud
35	Ms.Archana Hombalimath	Informatica	Designing a permissioned blockchain network for the insurance claim process using hyperleger fabric and composer
36	Dr.R.Kesavamoorthy	Book Series "Artificial Intelligence and Block chain in digital forensics "by River Publisher.	Detection of Online sexual predatory Chats using Deep Learning

FACULTY PUBLICATIONS

SI No.	Faculty Name	JOURNAL/CONFERENCE/PUBLISHER	TITLE
37	Dr.Radhakrishnan G and Dr. Shreekanth M Prabhu	Springer	Prediction of COVID-19 Pandemic spread using Graph Neural Networks
38	Dr. Paras Nath Singh	Springer/Q2	Background region based Face Orientation Prediction through HSV Skin-color model and k-Means Clustering Technique
39	Prof.Anil D	IEEE-xPlore	Disease detection on the leaves using Image Processing
40	Dr. Jagadishwari V	AIP Conference Proceedings (Scopus)	Deep Learning Models for Covid-19 diagnosis
41	Dr. Jagadishwari V	AIP Conference Proceedings (Scopus)	Empirical analysis of Machine Learning models for credit card fraud
42	Prof.Sagarika Behera	IEEE-xPlore	The Transformers' Ability To Implement For Solving Intricacies of Language Processing
43	Dr. Paras Nath Singh	IEEE-xPlore	The Transformers' Ability To Implement For Solving Intricacies of Language Processing

PATENTS FILED/PUBLISHED BY FACULTY

SL NO.	FACULTY NAME	TITLE OF INVENTION	FILED/ PUBLISHED
1	Dr.Raja.M and Dr.R.Kesavamoorthy	smart 360° auto toggle switch in mobile camera	Filed
		The effective power reservation model based on Smart Inverter Electric meter	Filed
		FOX-EYE : An Assistive Defense System for Soldiers	Filed
		Smart Intelligent Controller for irrigation and monitoring using agro deep learning algorithm	Filed
2	Dr.Pushpa Mohan	Intelligent Mail Communication System	Filed
3	Dr. Shanthi M B	Traffic Surveillance System with Accident Detection and Emergency Response Using Roadside Units	Filed
		Surya-Kirana	Filed
		A System for Location Based Safety Alert and Alternate Path Recommendation	Filed
		Hair Calci: A system for Counting the Hair to Detect the Intensity of the Hair Fall	Filed
4	Dr.Manoj Challa	G-KUP: A Smart Water Bottle for Health Care	Filed
		Portable umbrella dryer	Filed
		Smart Garbage Segregation System	Filed
	Dr.Jagadishwari Palani	Smart Triple Secure System for domestic doors	Filed
5	Dr.. Preethi Sheba	Smart teaching assistant for empathetic teaching in classrooms	Filed
6	Prof. Sreedevi N	Music Recommendation System for Visually impaired people	Filed
7	Dr. Kiran Babu T S	Automated areca nut harvesting device	Filed
8	Prof. Shivraj V B	Automatic water tank cleaning system	Filed
9	Prof. Savitha N J	Smart Video Surveillance	Filed
10	Prof. Sherly Noel	Intelligent pedestal fan	Filed

PATENTS FILED/PUBLISHED BY FACULTY

SL NO.	FACULTY NAME	TITLE OF INVENTION	FILED/PUBLISHED
11	Dr. Sudha danthuluri, Dr.Swathi.Y	A Smart Pen for Color detection and Usage	Filed
12	Dr.Sudha Danthuluri	Assistive system for rental services	Filed
		Smart Garbage Segregation System	Filed
		iFOX-EYE: An Assistive Defence System for Soldiers	Filed
13	Prof. Sagarika B	A Programmable Hardware Based Accelerator for Fully Homomorphic Encryption Security Solution for Cloud Computing Environment	Filed
14	Prof. Anjali Gupta	Method/system to detect blood in an oral cavity during toothbrushing	Filed
15	Prof. Pratham Majumder	A cloud-enabled smart water bottle for water intake monitoring	Filed
16	Prof. Savitha S	See to LOCK /UNLOCK for smart door automation	Filed
17	Prof. Poonam	operating computer and similar gadgets with mouse shaft instigation using facial gestures for people suffering from disabilities	Published
18	Prof. Kartheek G C R	A smart system and method for eliminating mosquito attacks	Filed
19	Prof. Smitha N	Smart mat	Filed
20	Prof.Shyamasree	A block chain based Smart liquid container with remote monitoring for Smart Home Application	Filed

PATENTS FILED/PUBLISHED BY FACULTY

SL No.	FACULTY NAME	TITLE OF INVENTION	FILED/PUBLISHED
21	Prof. Manjula	A Block chain based smart lunch box for food monitoring system	Filed
22	Mrs. Suneetha	Women Safety Band with assault image transfer to emergency contacts	Filed
23	Dr.R.Kesavamoorthy, Dr.Raja.M	Blockchain Based Secure Transportation System For Sustainable Smart Cities	Filed
		Automated Simplified Health Predictions By Using Fuzzy Logical Controller	Published
		Blockchain And Cloud Based Digital Forensic Examination System Using IoT and Machine Learning	Filed
24	Mrs.Aswathi	Smart Hair Coloring Comb	Filed
25	Ms.Navaneetha	Automated Smart Sliding Window	Filed
26	Mrs. Archana	Hair Density Measuring Band	Filed
27	Mr.Anil D	landslide real time early monitoring and warning system	Filed
28	Dr. Sanchari Saha	Multithreaded Wireless Body Area Network Architecture for Health Monitoring	Filed
29	Dr.Jayanthi.N	Women Safety Friendly Device Using Smart Technology	Filed
30	Prof.Krishna Sowjanya K, Dr. V N Manju	Uncovered Manhole Detection and Alert systems on Roads during Rainfall.	Filed
31	Prof.Krishna Sowjanya K, Dr. V N Manju	Smart surveillance system on infrastructure breach in interior residential metropolitans' areas	Filed

CONSULTANCY WORK BY FACULTY

SL No.	FACULTY NAME	FUNDING AGENCY	CONSULTANCY AMOUNT GENERATED	DATE	COE
1	Dr.P.Kavitha, Mr.Pratham Majumder	SARCI Automation Pvt.Ltd. Bangalore for Project titled "Automation of invoice processing "	Rs.1,00,000	April 2022	MIBD
2	Dr.M.Raja	Indian Servers Pvt.Ltd	Rs.30,000	June 2022	MIBD
3	Dr.R.Kesavamoorthy	Kalpavruksha Travel Solutions Pvt.Ltd, Bangalore for submitting AFT design document	Rs.5000	Mar 2022	NA
4	Dr Pushpa Mohan ,Dr.Jagadeshwari	SEINNA ECAD Technologies	Rs.25000	Aug 2022	1

START-UP REGISTRATION BY FACULTY

SL No	FACULTY INVLOVED	NAME OF THE ENTERPRISE	REGISTRATION NUMBER	DATE OF REGISTRATION	TYPE OF ENTERPRISE
1	Prof.SMITHA N Prof. SAVITHA N J Prof. SANCHARI SAHA	AI TECH SOLUTIONS	UDYAM-KR-03-0162589	1/5/22	MICRO (Based on FY 2019-20)



Faculty involved in startup project

Startup Registration

MOOC COURSES TAKEN UP BY FACULTY

FACULTY NAME	DATE OF COMPLETION	COURSE UNDERTAKEN
Prof. Sagaika	23/05/22 Received Elite+Silver Certificate	Compiler Design
Prof.Savitha N J	23/05/22 Received Elite+Silver Certificate	Problem Solving Through Programming in C
Dr. Sanchari Saha	27.5.22. Received Elite+Silver Certificate	Introduction to Programming in C
Prof.Sreedevi N	26/5/22	Introduction to Programming in python
Prof.Sreedevi N	30/5/22	Fundamentals of Computing Systems



FACULTY SERVED AS EXTERNAL RESOURCE PERSON

SL NO	FACULTY NAME	EVENT	SERVED AS	ORGANISATION
1	Dr. Paras Nath Singh	IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022),	Reviewer	Ballari Institute of Technology and Management, Ballari, India
2	Dr. Paras Nath Singh	VIT DC MEETING	External DC member for VIT research Student	VIT, Vellore
3	Dr. Paras Nath Singh	VTU Research Advisory Committee	Research Advisory Committee for VTU Research Students	VTU JNANASHODHA Research Portal
4	Dr.Jagadishwar V	AIC-2022 conference	Manuscript Reviewer	IEEE-AIC-2022 conference
5	Dr.Manoj Challa	5 day workshop	Resource person	East Point College of Engineering and Technology ,Bangalore.
6	Dr.Kiran babu	National Conference in Recent trends in technology and Innovation	Session chair	CBIT, Kolar

FACULTY AWARDS

SL NO	FACULTY	AWARD DETAILS	AWARD PRESENTED BY
1	Ms.Poonam Tijare	SWE membership and conference scholarship	SWE
2	Dr. Sanchari Saha	Faculty Award	CMRIT
3	Ms.Savitha N J	Faculty Award	CMRIT
4	Ms.Smitha N	Faculty Award	CMRIT
5	Ms.Savitha N J	Certificate of Appreciation	CMRIT
6	Ms.Kartheek GCR	Faculty Award	CMRIT
7	Ms.Sherly Noel	Faculty Award	CMRIT
8	Dr.Kavitha.P	Faculty Award	CMRIT
9	Ms.Poonam Tijare	Certificate of Appreciation	CSE, CMRIT
10	Dr. Shanthi M. B.	Advanced Innovation Ambassador Certification	MoE, Govt. of India
11	Dr. Shanthi M. B.	Faculty award from Dept. of CSE	Dept. of CSE
12	Dr. Shanthi M. B.	Mentor Mentee Training, IIC, MIC	IIC-CMRIT



Prof. Sagarika receiving certificate from HOD-CSE



FACULTY AWARDS

SL NO	FACULTY	AWARD RECEIVED	AWARD PRESENTED BY
13	Mr.Pratham Majumder	Certificate of Appreciation	Dept. of CSE
14	Dr.Sanchari Saha	Certificate of Appreciation	Dept of CSE
15	Dr. Danthuluri Sudha	Certification from MIC, Ministry of Education, Govt. of India	MoE, Govt. of India
16	Dr. Kesavamoorthy R.	Certification from MIC, Ministry of Education, Govt. of India	MoE, Govt. of India
17	Dr. Sudha	Certificate of Appreciation	IIC-CMRIT
20	Ms.Smitha N	Certificate of Appreciation	Dept of CSE
21	Ms.Navneetha M	Certificate of Appreciation	Dept of CSE
22	Dr.Sudha	Certificate of Appreciation	Dept of CSE
23	Ms.Sagarika Behera	Certificate of Appreciation	Dept of CSE
24	Dr. Preethi Sheba Hepsiba	Certificate of Appreciation	Dept. of CSE



STUDENT PUBLICATIONS

SL NO	STUDENT NAME	TITLE OF THE PAPER	JOURNAL NAME
1	Vidya B	Preserving the Privacy of Medical Data using Homomorphic Encryption and Prediction of Heart Disease using K-Nearest Neighbor	IEEE-xPlore
2	Rekha B	Preserving the Privacy of Medical Data using Homomorphic Encryption and Prediction of Heart Disease using K-Nearest Neighbor	IEEE-xPlore
3	Pragya	Preserving the Privacy of Medical Data using Homomorphic Encryption and Prediction of Heart Disease using K-Nearest Neighbor	IEEE-xPlore
4	Tushar Baliyan	Prediction of Dementia using Deep Learning	Springer
5	Tarun Singh	Prediction of Dementia using Deep Learning	Springer
6	Vedant Pandey	Prediction of Dementia using Deep Learning	Springer
7	Ashwin Kanth	Chat Application Using Homomorphic Encryption	IOP Science
8	Ashwin C V R	Chat Application Using Homomorphic Encryption	IOP Science
9	Avik Adithya Suresh	Chat Application Using Homomorphic Encryption	IOP Science
10	Moh. Waseem, Azan Sherani, Kornipalli sai krishna	A smart resume screening tool for customized shortlisting	IOP Science

STUDENT AWARDS

SL NO.	USN	NAME	CATEGORY	DESCRIPTION
1	1CR19CS218	Sunrose shrestha	Student Publication	<p>Conference: 5th World Conference on Smart Trends in Systems, Security and Sustainability, London UK</p> <p>Paper Title: Dual-message Compression with Variable Null Symbol Incorporation on Constrained Optimization based Multi-path and Multi-hop Routing in WSN</p>
2	1CR18CS125	Pratik mukesh bharuka	The students have been awarded a cash price of ₹75,000 and have been qualified to represent India at the TIE Global Pitch level, the finals of which will be happening in the month of September 2022 at Stanford University, USA.	Finalists of The TIE pitchfest 2022
	1CR18CS125	Vaishnavi patil		
	1CR19CS022	Arpan abhishek		
	1CR18CS189	Yashwanth jain		
3	1CR19CS191	Zain ahmed n	AICTE NATIONAL LEVEL CHATTRA VISHWAKARMA AWARDS 2020	First prize in a category “promote micro, small and medium enterprises to achieve the mission of AtmaNirbhar Bharath” for presenting prototype/ Solution of advanced UV sanitization chamber.
4	1CR19CS153	Shanu kumar	TYL-Hackathon - Java/Python/C++	Winners - TYL-Hackathon - Java/Python/C++-Jan 7th to Jan 8th 2022



STUDENT AWARDS

SL NO	USN	NAME	CATEGORY	DESCRIPTION
1	1CR19CS215	Smriti	TYL- Hackathon - Java/Python/ C++	Second place in TYL- Hackathon - Java/Python/C ++-Jan 7th to Jan 8th 2022
2	1CR18CS125	Pratik mukesh bharuka	FKCCI- MANTHAN 2021	won 5th position and a cash prize of Rs. 25000/- at FKCCI Manthan 2021
3	1CR18CS177	Vaishnavi patil		
4	1CR18CS070	Yashwanth jain		
5	1CR19CS022	Arpan abhishek		
6	1CR19CS129	Rajneesh khare		
7	1CR19CS145	Sakshi raina	RPA Tools Hackathon 2021	Joint Winners of RPA Tools Hackathon 2021. Won Rs. 49,000/- Case Prize



STUDENT AWARDS

SL NO	USN	NAME	CATEGORY	DESCRIPTION
7	1CR20CS131	Omprakash rana	Best Mini-project - 3rd Sem	Currency Converter
8	1CR20CS096	Krishna kumar rauniyar		
9	1CR20CS094	Karlosh yadav		
10	1CR20CS038	Barun shrestha	Best Mini-project - 3rd Sem	implementation on Rasberry Pi
11	1CR20CS033	Ashutosh khalan upadhyay		
12	1CR20CS017	Alok priyadarshi		
13	1CR20CS064	Gandhi neelashish kumar	Best Mini-project - 3rd Sem	Flight Ticket reervation system
14	1CR20CS015	Akshay dubey		
15	1CR20CS069	Gopal rajshekar naik		
16	1CR20CS216	Vinayak patil	Best Mini-project - 3rd Sem	Developing a 2-D game Animated game using Python
17	1CR20CS184	Siddhant anand		
18	1CR20CS178	Shivam kumar		
18	1CR20CS174	Saurabh kumar		



STUDENT AWARDS

SL NO	USN	NAME	CATEGORY	DESCRIPTION
19	1CR19CS015	Amartya nambiar	Best Mini-project - 5th Sem	WeKeep Warranty Keeper
20	1CR19CS032	C K Amrutha		
21	1CR19CS022	Arpan abhishek		
22	1CR19CS108	Nikhita kolipakula	Best Mini-project - 5th Sem	Develop a ML project which predicts the name of medicine by providing the dataset of chemical compositions.
23	1CR19CS114	PSwetha		
24	1CR19CS109	Nikita sinha		
25	1CR19CS139	Rohan james	Best Mini-project - 5th Sem	Build Machine learning Models for diagnosing Covid 19 from chest X-Rays
26	1CR19CS138	Rohan abraham		
27	1CR19CS130	Rakshith		
28	1CR19CS209	Rohan naidu		
29	1CR19CS203	Mukesh kumar sah	Best Mini-project - 5th Sem	Career Guidance and prediction using ML
30	1CR19CS205	Nitik tiwari		



STUDENT AWARDS

SL NO	USN	NAME	CATEGORY	DESCRIPTION
31	1CR18CS134	Rashmi M	Best Final Year Project	AI Generated Art Guide
32	1CR18CS137	Rishita raha		
33	1CR18CS138	Rithika f johnson		
34	1CR18CS025	Anupama umachagi	Best Final Year Project	AI Powered Natural Language Advisor
35	1CR18CS026	Anusha h		
36	1CR18CS107	Nidhi dhariwal		
37	1CR18CS148	Shalini n	Best Final Year Project	Diagnosis of Covid 19 from chest X rays using deep neural networks Guide
38	1CR18CS166	Susanna Suchita s		
39	1CR18CS168	Tasmia firdose		
40	1CR18CS194	Sridhar	Best Final Year Project	Diabetic Retinopathy detection using CNN Guide
41	1CR18CS021	Ananya narayan koderi		
42	1CR19CS193	Manas dutta		
43	1CR18CS034	Aswini kalyan	Best Final Year Project	Detection and classification of intracranial hemorrhage and its subtypes using machine learning
44	1CR18CS007	Aditi sudhakar		
45	1CR18CS002	Abhishek datta		



STUDENT AWARDS

Sl. No.	USN	NAME	CATEGORY	DESCRIPTION
8	1CR19CS112	Nishanth b	5th Sem MOOC	Elite certificate from NPTEL
2018 Batch Toppers	1CR18CS148	Shalini n	3rd Sem Topper	Semester Toppers
	1CR18CS010	Akansha agarwal	4th Sem Topper	Semester Toppers
	1CR18CS040	Bindu priya r	4th Sem Topper	Semester Toppers
	1CR18CS148	Shalini n	5th Sem Topper	Semester Toppers
	1CR18CS040	Bindu priya r	6th Sem Topper	Semester Toppers
	1CR18CS052	Deeksha t s	7th Sem Topper	Semester Toppers
	2019 Batch Toppers	1CR19CS114	P swetha	3rd Sem Topper
1CR19CS220		Neha m dharwad	4th Sem Topper	Semester Toppers
1CR19CS156		Shraddha sahay	5th Sem Topper	Semester Toppers



STUDENT PLACEMENTS

SL NO	COMPANY NAME	USN	STUDENT	PACKAGE PA
1	JUSPAY	1CR18CS161	SOURISH MUKHERJEE	21
2	MERCEDES BENZ	1CR18CS183	VIVEK RAJ	10
3	MERCEDES BENZ	1CR18CS191	PRISCILLA C	10
4	MERCEDES BENZ	1CR18CS151	SHIVANI GUPTA	10
5	MERCEDES BENZ	1CR18CS103	MOHD AZAAN SHERANI	10
6	MERCEDES BENZ	1CR18CS087	KIRTI	10
7	MERCEDES BENZ	1CR18CS028	APURVA KUMAR GUPTA	10
8	ELLUCIAN	1CR18CS005	ACHYUTHA KRISHNA KANDUKURI	7
9	ELLUCIAN	1CR18CS148	SHALINI N	7
10	ELLUCIAN	1CR18CS040	BINDU PRIYA R	7

STUDENT PLACEMENTS

SL NO	COMPANY NAME	USN	STUDENT	PACKAGE PA
11	BOSCH GLOBAL	1CR18CS052	DEEKSHA T S	5
12	BOSCH GLOBAL	1CR18CS181	VINEETH HAVALAD	5
13	INFO EDGE	1CR18CS010	AKANSHA AGARWAL	12
14	Aarohin Technologies	1CR18CS056	M Devika	4.07
15	ITC Infotech	1CR18CS068	Guddu Kumar	4.25
16	ITC Infotech	1CR18CS190	Preethi Kaithan	4.25
17	Amazon	1CR18CS103	Mohd Azaan Sherani	26.5
18	Motorola	1CR18CS089	KORNIPALLI SAMPATH KUMARGARI SAI KRISHNA	11.55
19	Page Industries	1CR18CS170	TEJA B	7.5
20	Colt	1CR18CS044	CHINMAYA KUMAR BARIK	5.5

GRADUATION DAY-2022

Graduation day was held on 8/sept/2022 to congratulate all the 2022 grandaunts of BE-Computer Science and Engineering. Best wishes to all the grandaunts !!!



STUDENT ARTICLE

The Dopamine Loop

Social media is basically a way to *drugify* human connection,” says Anna Lembke, MD, psychiatry professor and Chief of the Addiction Medicine Dual Diagnosis Clinic at Stanford University and she is absolutely right. Note the use of the word, ‘drugify’ here. This is a direct correlation and significance to the effect social media will have on teens and adults alike with the increased use of the same. The drug-like effect is nothing more than the inflated spike of dopamine released in the body and is similar to the amount of dopamine released when *recreational drugs* are taken.

So what is dopamine? Dopamine is a naturally occurring “feel-good” chemical that triggers our inner reward system. The most common form of its releases in high quantities include: when we eat delicious food and being with friends and Crucially- when addictive drugs are taken. Anna continues to say that the effect of seeing flashy lights, rankings, likes and comments, beautiful images of other people with *minimal effort* on social media makes the brain release more dopamine than it would in a typical human-to-human real life interaction. And this is precisely why it has the potential to act like a drug.

Dopamine is associated with “seeking” behavior. It works to motivate people to seek out food, information and entertainment, among myriad other commodities and experiences. Once a target is achieved, the brain’s opioid system delivers a chemical reward that we experience as pleasure. Through experiencing this cycle repeatedly, people and other animals learn to anticipate pleasure from seeking, which perpetuates the loop. This is the dopamine loop that the topic sheds light on.

Why is this loop so dangerous? And how do we escape from this loop? The answer is not so simple and the solutions, not so easy but regardless of which we must liberate ourselves from these chains that are ridding us of our potential. The loop has quite literally “fried” our dopamine sensors, and what it means is that the amount of dopamine that should actually be released by naturally induced situations is less than the what is released by *artificial situations* posed by social media. Therefore we tend to seek artificially induced dopamine much more than naturally occurring ones. The loop is endless for we never can find the feel-good chemicals in real-life but only on social media.



RAKSHITH
VI SEM CSE

STUDENT ARTICLE

“LESSONS LEARNT FROM KARATE”

I am a black belt holder in karate. The skills learnt from karate has influenced my life a lot. I would like to share how karate has helped me develop as a person .

Firstly , It was drilled into me that karate was for self-defense only , but it is important to know a few self-defense moves because no one knows if they might end up in a situation where you have to use them .Karate will make you develop the speed in which to react when someone throws a punch and how to get out of those grabs and holds , different kind of kicks ,low stances , chokes , knife disarms and much more.

Martial arts have become an important part of my life , by practicing karate, I have developed my character and my personality especially the attitude towards different people on their behavior. It gives me a better freedom of movement and a best flexibility .

I feel very proud wearing black belt written with my name while practicing in the dojo , It gives me a huge goose –bumps . I also thank all my instructors and my colleagues for giving me a huge support for my success . so far I have achieved 8 state levels and 6 national levels held all over India . My main goal in karate is to achieve my 3rd dan in black belt and start a karate academy for girls and women which I will continue to strive to reach .The endurance and strength exercises at the end of each class is huge but now I hold double the self confidence that ‘I CAN DO IT’. To conclude, I am enjoying my karate journey and I am glad that it has helped me to shape a person in today’s life .



***M .MAMATHY
(IV SEM ‘B’ SEC CSE)***

Program Outcomes(POs):

- **PO1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2 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. **PO3 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 the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4 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. **PO5 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. **PO6 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **PO7 Environment and sustainability:** understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development. **PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9 Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10 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.
- **PO11 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.
- **PO12 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.

Program Educational Objectives (PEOs):

- **PEO1:** To prepare graduates with a strong foundation in engineering, science and technology, and expose them to modern tools for a successful career in industry, entrepreneurship and research.
- **PEO2:** To produce graduates equipped with knowledge and skills required to analyze, design and develop system solutions for real world problems.
- **PEO3:** To collaborate with industry and professional societies, to produce competent computer science professionals. **PEO4:** To nurture communication and project management skills of graduates, for them to be good team players and leaders.
- **PEO5:** To produce graduates who are ethical and socially responsible.
- **PEO6:** To produce graduates who are innovative thinkers and life-long learners.

Program Specific Outcomes(PSOs):

- **PSO1:** Design, implement and maintain business applications in a variety of languages using libraries and frameworks. **PSO2:** Develop and simulate wired and wireless network protocols for various network applications using modern tools. **PSO3:** Apply the knowledge of software and design of hardware to develop embedded systems for real world applications.
- **PSO4:** Apply knowledge of web programming and design to develop web-based applications using database and other technologies