

# COINTEL

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ISSUE 02



THE DEPARTMENT OF  
COMPUTATIONAL INTELLIGENCE



# COLOSSAL

## INSIDE THE ISSUE



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### EDITOR'S VOICE

This is our letter to you, from the editors to the students, the letter that will shake-off any doubts you have, the letter that makes you see the potential of your choice.



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Falling the first seven times feels trivial when you stand on your eighth, this is the page where we prove just that.



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### PUBLICATIONS

Our faculty have not only excelled in educating the pioneers of our next generations but also have outdone themselves in developing new technologies.



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### FACULTY PARTICIPATION

Faculty participation is critical to each and every institute. Flip to this section to know what your faculty has been up to!



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### PONGAL SPECIAL

For all the pongal celebrations, the traditions, food, and some unknown facts about pongal, don't miss this page!

# EDITOR'S VOICE

Howdy!

Flying over the sky is electrifying and exhilarating. Along with the young, inventive minds, it doubles our pleasure. The Department of Computational Intelligence stimulates path-breaking innovations and provides an atmospheric voyage for the destinations to reach the unreachable.

Co-drifting with several commuters, along the path of computational intelligence is mind blowing at every step. The propellers are deep thoughts in deep learning, contrastive learning to understand deep fakes and deep intelligence in cognitive science terminology. The contextual integration of every fellow rider is priceless to mention. Scientific research is constantly pushing back the frontiers of our knowledge about the world in terms of what we do and what we do not know. The opportunities for research and development have not been exploited with the borders of space exploration.

**Creative artificial intelligence:** South Africa has granted the first patent to an ingenious AI system called DABUS, which simulates human brainstorming and creates new inventions. The world has already seen tremendous adoption of AI over the last two years, still more in 2022.

**Embedded AI:** 'AI inside,' is embedded AI, which is the application of machine and deep learning in software that is embedded at the core of the device – from architecture to operations or from cloud-level to device-level processing of AI tasks, data and results. Currently, it is being used in areas like grocery delivery and restaurant supply-chain optimization to bridge the business-to-customer divide and ensure seamless user experiences.

**AI and Metaverse:** Metaverse has become a hot topic since Mark Zuckerberg made it public. He recently announced this concept and revealed his vision of creating a new world by merging virtual reality with the social foundations of Facebook. It is believed that the shift to the online world during the pandemic is associated with the creation of metaverse. In short, to have a moment! 2022 is envisioned to witness more development around this concept.

**Web 3.0:** Now, it's time for Web 3.0, which is to make the internet decentralized and away from the hold of giants like Amazon, Facebook, Google, etc. In a more straightforward sense, Web 3.0 will take us to a decentralized online world based on the pillars of blockchain in 2022, Web 3.0 is likely to further this digital journey with the privacy concept on Federated Learning.

**Quantum Computing:** A better example of Quantum Computing would be Antman from the Marvel Universe. This innovation won't just help us address problems more quickly, but it will also enable us to tackle and find answers to the questions that have been impossible so far. In 2022, the world might see more progress in this space.

The pandemic has accelerated tech adoption across various businesses. It has also given researchers and innovators more reasons to discover/invent advancements that can transform the world into something beyond better. The innovations are just a testimony. Rest, only time will tell!

There is something for everyone in the untouched terrain of the Department of Computational Intelligence.

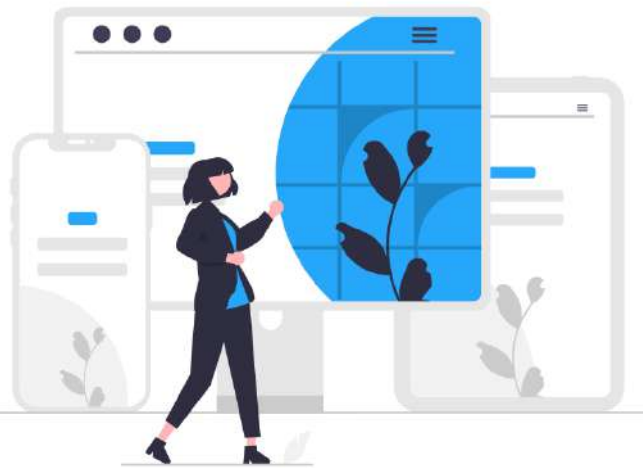
Working Smarter, Leading Better and Getting Ahead is our proverb!

Let us bring the torch of awareness to  
conquer the darkness.

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# <ADWWWICE>

## web development.



Aren't you the one who's smitten by the web? Wouldn't you like to yourself spin some of the magic internet holds? Aye, the art you're looking for is Web Development, junior artist. Google 'coding' and suddenly you're blasted with so much of information, it just makes you go skjsjssjkkjskjs. But don't you worry, we've got you covered ;)

As Rome wasn't built in a day, web development isn't something that can be mastered in a day or two, so don't fret if you're unable to construct another YouTube right away, practice makes perfect.

**FRONTEND - THIS IS WHAT A USER SEES AND INTERACTS WITH ON THE PAGE. ALL THE DESIGN, THE GLAMOUR, THE FANCY EFFECTS, THE LAYOUT AND IMAGERY THAT CREATES THE USER EXPERIENCE IS A PART OF FRONTEND DEVELOPMENT.**

**BACKEND - THE MASTERMIND BEHIND A SITE, THE FUNCTIONALITY, THE ONE THAT MAKES A WEBSITE ALIVE AND BREATHING IS THE BACKEND. IT'S BASICALLY THE 'HOW' TO HOW A WEBSITE WORKS.**

An organized and trustworthy web development guide is MDN Web Docs. Mozilla Developer Networks is nothing short of an online mentor, it'll provide you with all the concepts explained thoroughly. You need to start with HTML and CSS, followed by JavaScript and then with server-side scripting languages like Python, PHP etc, you'll surely get your own path when you start with web development.

# resources.



## Wire framing

A skeletal outline of your website.

- [Figma](#)—To create a detailed prototype, Figma is the way to go!
- [Sneakpeekit](#)—Would like to hand sketch your site? Try Sneakpeekit for printable sketch templates.
- [Balsamiq](#)—For a rough quick outline, try Balsamiq, an online tool to sketch your website.

## Design

In search of inspiration and the best designs the internet could provide? Try these websites. They're basically the fashion shows of websites.

- [Dribbble](#)—The home to the world's best design professionals.
- [Awwwards](#)—Website Awards that recognize the talent of the best developers, designers and web agencies around the world.



## Sites

Some very useful sites you don't even know you'll be needing!

- [Emojipedia](#)—A library for emoji pictures!
- [Flaticon](#)—For downloading icons like Facebook, Instagram, LinkedIn.
- [Favicon](#)—A favicon generator, the little images that are present at the left-end of each tab.

## Colour Schemes

made easy for you.

- [Colorhunt](#)—Palettes laid out at your disposal.
- [Adobe Color Wheel](#)—Play and choose your colors yourself!



# DEPARTMENTAL ACTIVITIES

## WORKSHOPS

- Firstly we have Dr. Hariharan. B who conducted an Online Workshop on Writing an Effective Grant Proposal.
- D. Anitha and M. Maheswari conducted a National Workshop for two days on the role of artificial intelligence in Software Fault Prediction.
- Dr. Hariharan and Dr. Siva conducted a Workshop on Artificial Intelligence and Machine Learning Application in Healthcare.
- Dr. M. Ferni Ukrit Initiated an Upskill program for the II and III year students on 27th November 2021 on the Topic of The Art and Science of Building Search Engines.
- Maragatham G firstly organized an Upskill program for students on Upskill program on The Art and Science of Building Search Engines, on 27th November 2021 from 9:00 am to 9:45 am. Secondly Organized a Motivational talk for the 2018 Batch students towards placement activity. On the Topic talk on Behavioural Round Preparedness on Oct 25, 2021 from 05:30 PM.
- A.SARANYA Data Visualization using Tableau, Two days national workshop of software fault prediction using machine learning.

## GUEST LECTURES

- Dr. Karthikeyan Vaiapury a Scientist and Retail Research Vision Head, TCS, India gave a most valuable lecture on the Foundation of AI.
- Mr. Mohak Narang who has a MSc Artificial Intelligence and works in Department of Informatics King's College, London spoke on the topic of Explainable AI and Biases in Deep Learning Systems.
- Dr. C. Lakshmi a Professor from our very own Department of Computational Intelligence gave a very informative lecture on Artificial Intelligence and its Applications.

## ALUMINI TALKS

- Dr. G. Senthil kumar, Dr R. Siva, Dr Shinyangel and Dr Madhan conducted an alumni talk where Ayyagiri abhishek a Devops Engineer from EPAM systems-Hyderabad spoke on the topic: Start Innovating with AWS services.
- Dr. Annie Uthra , Dr. C. Lakshmi, Dr. T. S. Shiny angel and Dr. G. Senthil Kumar conducted an event where Jayavidhi Kumar from our 2018 Batch spoke on Beginning Career in UI/UX.

Our department also conducted our very own project expo under the guidance of, Dr A. Alice Nithya, Asso. Prof/CINTEL, Dr. J. Preetha Roselyn – Prof/EEE and Dr. A. Revathi, Asst.Prof / CINTEL

# RURAL OUTREACH PROGRAM

We have planned to organize an IET Sponsored Rural outreach program on 24th December 2021. We planned to focus on Awareness of Covid-19 and Promoting young girls in sports for Government Model Higher Secondary School, Anjur 603204, Chengalpattu District. The program activities as follows.

- Awareness of Covid-19 and distribution of
  - Mask
  - Hand Sanitizer
  - Thermometer
  - Hand Wash
  - Dettol
  - Acid for Toilet Cleaning
  - Bleaching Powder
- Promoting young girls in sports
  - Distributing sports kit to two State Level Players identified by the school.



## CHRISTMAS CELEBRATION



Christmas Event was Celebrated in School of computing to mark the birth of Jesus, who is the supreme lord of the Christians. It marks the beginning of the days of hope for those oppressed before the birth of Jesus. Christmas celebrates the spirit of joy and merry-making and thus the event was a great time for the families of the faculty who joined and made the event successful

## <HACK-WITH-US>

'Hack With Us', a 24-hour hackathon was organized by SRMKZILLA and the Department of Computational Intelligence, School of Computing in association with Capgemini on October 13, 2021. The event consisted of a preliminary round that was based on presentations and the final round where the shortlisted teams coded their project in 24 hours under the mentorship of SRMKZILLA's Technical team. Winners were awarded exciting prizes and certificates were given to all participants.

## ONLINE COURSES ✓

- The Basics Of Geographical Information System Course was completed by Mrs. Anitha, Mrs. Anupama, Dr. S. Karthick and Mr. Arun.
- The RS and GIS Application In Natural Resource Management Course was completed by Mrs. Anitha and Mrs. Anupama.
- The Geo Spatial Input For Enabling Master Plan Formulation For Amrut Scheme Course was completed by Mrs. Anitha, Mrs. Anupama and Dr. S. Karthick.
- The Geo Informatics For Bio Diversity Conservation Planning Mrs. Anitha.
- Data Visualization using tableau and Data Analytics using Python Course was completed by M. Maheswari.
- The Foundations Associate Oracle Cloud Infrastructure Course was completed by Dr. M. S. Abirami.
- The Great Learning - Data Visualization using Tableau Course and The Virtual Cyber Labs Academy, Information Gathering Fundamentals Course was completed by S Aruna.
- The Fundamentals of Deep Learning Course was completed by Dr. T R Saravanan.

# FACULTY PARTICIPATION

S. Ramya and M. Uma participated in an International Conference on Emotion and Sensibility, ICES 2021, Nov/2021 and published Study of Epilepsy Prediction using Machine Learning methods, (Korean society for Emotion and Sensibility).

Yohapriya and M. Uma participated in Development of new tool using formal psychological assessment for depression diagnosis, (Korean society for Emotion and Sensibility) International Conference on Emotion and Sensibility. ICES 2021, Nov/2021. They also got the Best Paper Award received.

Yohapriya and M. Uma participated in Multi-Variant Classification of depression severity using Social Media Networks based on TimeStamp, Intelligent Data Communication Technologies and Internet of Things ICICI-2021., 27-28, August 2021.

V. Vijay Priya and M. Uma participated in the Comparison of Multimodal Features for Detecting Driver Drowsiness using Different Dataset, 5th International Conference on Trends in Electronics and Informatics (ICOEI 2021)- 10.1109/ICOEI51242.2021.9452887 ,Sep'2021,IEEE Explorer (Scopus).

C. Arun not only participated ATAL FDP on "Deep Learning" by "Indian Institute of Information Technology Vadodara, from Dec 13-17, 2021 but also in Fundamentals of Deep Learning by NVIDIA.

Dr. M. UMA firstly Attended AICTE-ATAL FDP program on thrust area of "Robotics- Recent trends in industrial robot programming and applications with hands on training" during December 6th-10th 2021. Secondly she participated in the International Conference and was the Session- Chair and Organization member for "4th International Conference in Emotion and Sensibility", ICES 2021, Collaboration with Korean Society for Emotion & Sensibility (KOSES)-SRMIST, India- South Korea, 26th November 2021.

Dr. S. Amudha attended ATAL FDP On "Advanced Control and sensor technology for Renewable energy integrated with grid computing" on Jan 17th to 21 at 2022.

Dr. S. Karthick participated in the "Predictive Modelling Using Data-Science Techniques" from 6 to 10 September 2021 at Indian Institute of Technology Guwahati, "PALS-VLABS 2021-22 INITIATIVE with NITK Surathkal"- 06-Sep-2021 thru 09-Sep-2021.

Dr. T R Saravanan participated in the AICTE Training and Learning (ATAL) Academy Online FDP on "Machine Vision and Digital Twin", at Sathyabama Institute of Science and Technology from 22 to 26 November'21.

Dr. P. Sridevi Ponnalar participated in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Computational Intelligence" from 03/01/2022 to 07/01/2022 at National Institute of Technology Agartala.

Dr. T R Saravanan organized a knowledge up skill webinar on 'The Art and Science of Building Search Engines' at Chennai Mathematical Institute and a placement talk 'Industrial Opening and Techniques to Crack to be a Security Engineer' at Fresh works, Perungudi, Chennai for II and III year School of Computing.

Dr. T. S. Shiny Angel participated in National Workshop on Robotic Process Automation, "Workshop on Writing an Effective Grant Proposal", held on 17 December 2021.

# ACHIEVEMENTS



## STUDENT ACHIEVEMENTS

The achievements, successes or accomplishments we gain are the best part of our college life. Those achievements may include personal academic achievements and sports or extracurricular achievements. They may be the best or the worst but we never forget them.



- Iram Kamdhar of second year AIML completed her Internship in Multi-Verse Technologies Private Limited, on the 24th, 25th and 26th December.
- Siddarth from second year won first place in silambam a district level competition held on 28th November 2021
- Sarthak Dvivedi received a Silver medal in a National Level Chess competition in the year 2019.
- 3 students completed a course in IIT -Kharagpur.
- 2 of our very own students got placed in a highest package CTC- 42.5 LPA in Amazon.
- Ms Vanshika Singh Gour from second year T2 received great praise for outstanding performance in transcending innovations -business idea challenge organized by electronic product development laboratory on 30/8/21 at Bannari Amman institute of technology
- To round up we have Janavi Darbhamulla had participated in SRM Project Expo-21 and the Won third prize.

Teachers make children knowledgeable and cultured, their patience and love give a strong shape to a student's whole life. So, here are just some achievements of our distinguished faculty.

## FACULTY ACHIEVEMENTS

- Dr. M. S. Abirami completed Oracle certified Foundations Associate Oracle Cloud Infrastructure course on 2021.
- S. Ramya, M. Uma, A Study of Epilepsy Prediction using Machine Learning Methods (Korean society for Emotion and Sensibility) International Conference on Emotion and Sensibility, ICES 2021, Nov/2021.
- Dr. T R Saravanan was the resource person for the guest lecture "Technology and security in Mobile devices," at St Josephs Institute of Technology, Chennai on 1 November 2021.
- Yohapriya, M. Uma, Multi-Variant Classification of depression severity using Social Media Networks based on TimeStamp, Intelligent Data Communication Technologies and Internet of Things ICICI-2021, 27-28, August 2021.
- Yohapriya, M. Uma, Development of new tool using formal psychological assessment for depression diagnosis, (Korean society for Emotion and Sensibility) International Conference on Emotion and Sensibility. ICES 2021, Nov/2021. (Best Paper Award received).
- Dr. T R Saravanan was appreciated as a Reviewer for "International Conference on Advances in Computer Science and Technologies," at SRMIST, Ramapuram Campus, on 8th October 2021.
- V. Vijay Priya, M. Uma, Comparison of Multimodal Features for Detecting Driver Drowsiness using Different Dataset, 5th International Conference on Trends in Electronics and Informatics (ICOEI 2021)-10.1109/ICOEI51242.2021.9452887, Sep'2021, IEEE Explorer (Scopus)
- Dr. S. Karthick was awarded the Certificate of Excellence for successful completion of work-let 'XGDAI: Explainable Reinforcement Learning (XRL) development'.

RA2111026010373

**KANUPRIYA JOHARI**

- Third in Genesis Hunt, Ecell, IIM Calcutta
- Third in Not Another Unnamed Quiz, UEM, Kolkata
- First in End of the year quiz, BIT Durg
- First in Shining Star Quiz, Shine Projects
- First in Quiz competition, Zzoko
- First in Controquiz, Quizzar, IIM Sirmaur
- Top 50 in L'Oréal Probe for Beauty 2030: The Treasure Hunt, L'Oréal
- Top 10 in VSAT, Vedantu
- First in Prodigy, Unacademy
- Top 10 QuizAway (thrice), Dare2Compete
- First in CrossWord, Ramanujan Mathematics Club, SRMIST
- Third in Maths Quiz, MACS, DTU

# BEHIND THE CURTAINS

Another news that hit the headlines recently,

A group of First Year CSE with specialization in AI/ML students that have started their own club, a first-of-its-kind “The Cherry+” Club. Already on the verge of getting more than 20+ participants and growing. Following is an exclusive interview, with one of their founding members Aditya Krishnan.



**Tell us about your brand-new project, the “Cherry+” club.**

Well, the name cherry is derived from the phrase “cherry on top”, meaning making something good, better. Cherry+ is basically a networking arena which provides a platform to all our participants, a chance to find their true passion. We help them develop their skill set and find other people with similar interests. We basically function as a backbone for collaborations in the student community group. That’s our main thing.

THE **CHERRY+** CLUB



**Our only goal is growth.**

**Is it an exclusive club? Or are there no restrictions, an open-to-all club?**

NOT AT ALL. Starting from 3 CSE students, we eventually grew to of 17+ from all different branches, EEE, Biotech, ECE, etc. We won’t limit it or make it an exclusive club because opportunities cannot be restricted to a particular set of people. That is what we believe in and that’s more or less why we felt the need to start this club. We require just one thing from the people and that is the will to learn, to do more.

Cherry+ isn’t a technical-club, we are a culmination of all the domains out there. Even if you don’t find yours, we can create one for you. In other clubs, you have to stick to a particular set of rules, comply with a schedule but here, we only require one discipline and that is the will to learn. We don’t specifically stick to coding, or hackathons, we are trying to be in everything.

## What motivated you to start your own club, that too during just your first year in SRM?

Well, to be honest, it's our first year and we are yet to see the campus. One thing that specifically irked us was that despite there being many clubs, each focused on one particular skill set of yours. What we thought of doing is, let's bring all the talents together at one place. By that you can get exposure, meeting all kinds of people from other domains/interests, you can really open your ways to creativity once you know what the other side is doing.

This is for the growth of the students as a whole community. If we'd have started it later on, it'd have been lagging, but in their first year, students have time to give to themselves. For us, I believe it was the perfect time to start and just the perfect intention behind it.



## Have you started any club activities, competitions, anything?

Initially to get the word out, we started doing Movie nights and we had quite a good turnout. Apart from that, we did a debut event, "Frosty Fiesta" last month. It had a Christmas theme to it. Honestly, we are so proud and amazed over the fact that the participation turnout was much higher than expected. It's not common for students to actually deliver on their promises of showing up to every event, but the numbers of who tuned in for the event were amazing. We streamed our event on YouTube too.

## This is exclusively for all our readers out there, why do you think they should join the cherry+ club?

For starters, this club is relatively brand new. We are still openly deciding which path we exactly want to steer upon. So anyone, who is interested to start their own thing, be someone creative. You get an opportunity to just spread your wings, at any domain you want. If you want to learn, improve, meet, and enjoy your time in college then this a place where we cater to your needs both professionally as well as personally.

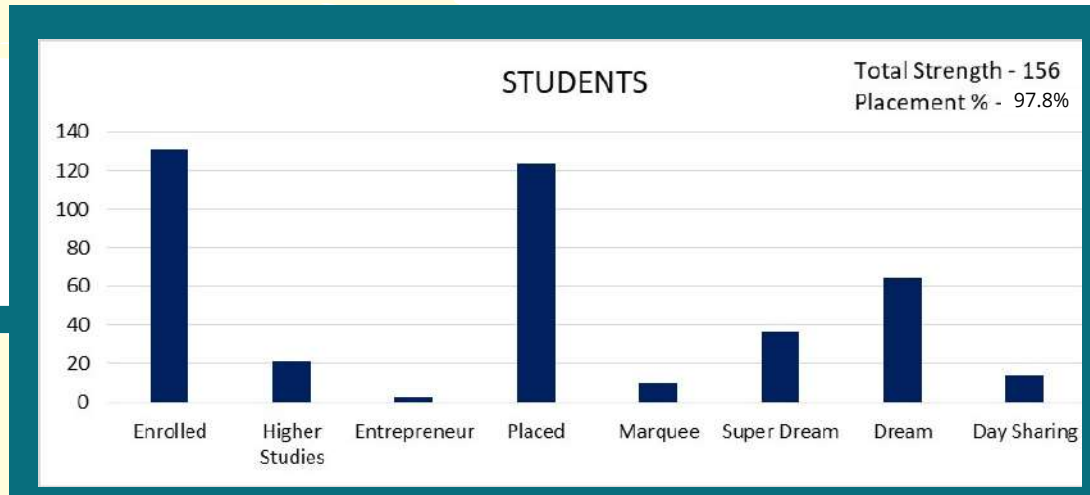
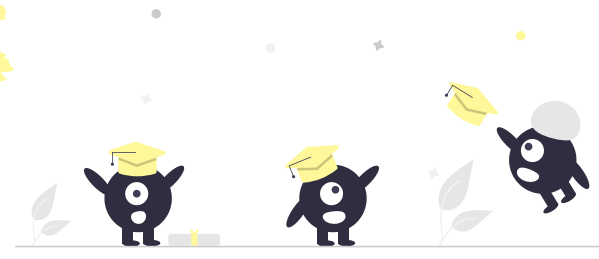
## What are the short-term goals set forth for now, or what all do you wish to achieve through this club?

Our first goal, posing both as a short-term and a long term one is that to spread out awareness about our club and getting a major chunk of SRM students to come to know about the club. Most of the students, as of this moment don't know that such a club exists. So if they did, I'm sure they'd go bananas to just join such a club.

Another goal in our to-do list is to ensure the growth of our participants. Our aim is not to just enhance one's talent but also to get the best out of them. To strive themselves onto becoming the best version of themselves. Along the lines of that, we desire to provide the exposure, bringing in major professionals in their particular aspects of industry, who can provide guidance to such students. As we mentioned earlier, We help students to get into collaboration with professionals, leading into any sort of internship, which I believe isn't provided by any club as of now. Not even limited to just the internship but it involves a whole experience within itself.

**STAY TUNED TO THE CHERRY+ INSTAGRAM PAGE AND DISCORD SERVER FOR ANY AND ALL UPDATES!**

# Placements



For the Department of Computational Intelligence, placement percentage for 2021 has been 97.8% with 370+ companies visiting the university. With around 20 of the total 170 students getting packages greater than 7.5 lakhs, placement statistics have soared despite the pandemic.

## Artificial Intelligence and Machine Learning

97.8% placement with 128 out of 131 placed

### MARQUEE



Ishaan Gurtu of the specialization AI/ML secured a package of 29.36 LPA at Amazon. Keeping up with the specialization, Anmol Jha secured a package of 23.75 LPA and Sanchay Yadav, a package of 20 LPA at Amazon.



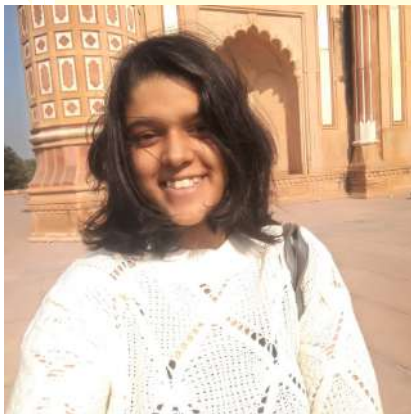
**Ishaan Gurtu**  
(Amazon - 29.36 LPA)

# Software Engineering

MARQUEE



**Atul Gopinathan**  
(Amazon - 42.5 LPA)



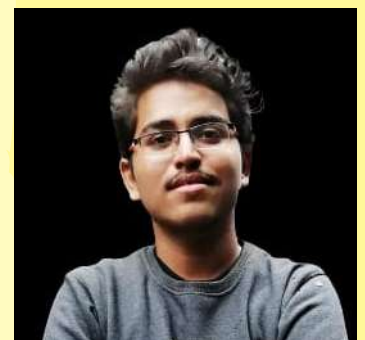
**Tarushi Pathak**  
(Amazon - 30.75 LPA)

Making the department of computational intelligence proud, Atul Gopinathan and Saksham Anand of the specialization SWE each secured a package of 42.5 LPA at Amazon. Following the spectacular trend, Tarushi Pathak and Ahmed Mawai each secured a package of 30.75 LPA and Aadya Sahai, a package of 30 LPA also at Amazon. Harsh Gour and Himanshu Bathla secured packages of 20 LPA at Rich Panel and at Amazon, respectively.

Vishal Kumar of the CSE (AI/ML) Department went to EPITA, France for his sixth semester.



**Saksham Anand**  
(Amazon - 42.5 LPA)



**Ahmed Mawia**  
(Amazon - 30.75 LPA)

## HIGHER STUDIES

Under the guidance of Dr. K. Vijayakumar, Pranjal Mahajan went to University of California, Davis in the United States to pursue MS in Computer Science.

Prateek Taneja went to University of California, Riverside (CA, United States) under the guidance of Dr. K. Vijayakumar to pursue MS in Computer Science.

Also, under the guidance of Mrs. Jothi, Kallu Srinivasareddy went to University of Bridgeport (Connecticut, United States) to pursue MS in Computer Science while Varuun Adithya went to University of Texas (Dallas, United States) for MS in Management Science.

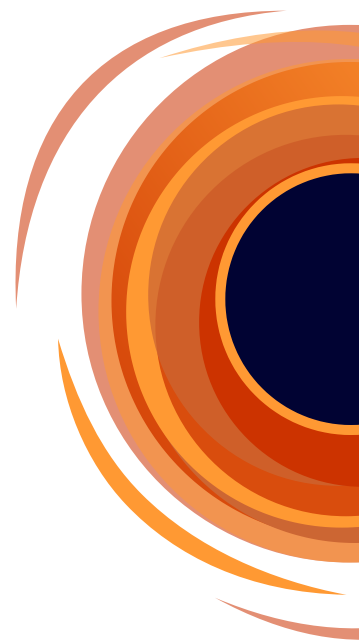


**Aadya Sahai**  
(Amazon - 30 LPA)

# RECOMMENDATIONS

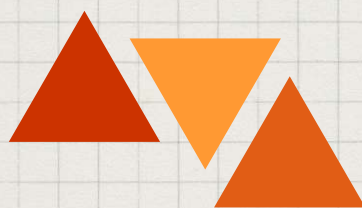
## MOVIES

1. Inception
2. Interstellar
3. 2001: A space odyssey
4. Arrival
5. Primer
6. The Matrix
7. Lucy
8. Tenet
9. Ready Player One
10. Source Code
11. Ex-Machina
12. Back to the Future
13. Dune
14. Edge of Tomorrow
15. Minority Report



ONE TOTALLY GENIUS  
RANDOM WEBSITE IS  
THE USELESS WEB. A  
CHEF'S KISS THIS ONE,  
HONESTLY.

## SERIES



1. Black Mirror
2. Rick And Morty
3. Dark
4. Westworld
5. The Handmaid's Tale
6. The Expanse
7. Star Trek
8. Stranger Things
9. Loki
10. Hawkeye

## THE PLAYLIST

A screenshot of a Spotify playlist interface. At the top, the playlist is titled "F5 january '21" and the album "colossal" is displayed. Below the title is a progress bar with play, pause, and skip buttons. The main part of the image shows a list of five songs:

- 1 Run - AWOLNATION (4:01)
- 2 Sound Of War - Tommee Profitt, Fleurie (4:07)
- 3 Nikamma - Lifafa (3:31)
- 4 Bang Bang Bang Bang - Sohodolls (3:01)
- 5 Pompeii (3:34)



# PUBLICATIONS

## PATENTS

- “Early Detection Of Skin Cancer Using Handheld Low-Cost Smart Device”, Madhan
- “3D Navigation Assistance System For Skull Surgery Using Image Processing And Machine Learning” by Dr. Amuthadevi
- “Intelligent IOT and 5G Based Patient Care System”, by Dr. P. Herbert Raj, Mrs. J. Evangelin Jeba, Mr. Narayan Krishan Vyas, Dr. R. Karthick, Mrs. S. Amudha, Dr.N.R.Indira, Mr. K. Pandiaraj, R.Mohammed Abdullah, Dr. Gopikrishnan M, Mr. P. Selvaprasanth, Mrs. P. Meenalochini
- Dr. G. Senthil Kumar published 3 patents, firstly ‘A System For Validation of Webservices And A Method Thereof’. Secondly ‘A System For Automatically Controlling The Speed Of A Vehicle And A Method Thereof’ with S. Samsudeen on December 2021. Thirdly ‘A System For Managing Requirements Of A Project And A Method Thereof’ with Dr. T. S. Shiny Angel on December 2021.

## FUNDED PROJECTS

- Dr. A. Revathi, one of our highly distinguished faculty has not only worked on a Customized Learning Model Using Learner Activity Analysis, Webology, Volume 18, Special Issue on Computing Technology and Information Management on September, 2021 but also on the Classification Of Spam Detection Using Naive Bayes Algorithm Over K-Nearest Neighbors Algorithm Based On Accuracy, Natural Volatiles and Essential Oils, Volume 8, Issue 5 Pages 8516-8530.
- On November 2021, Saveetha, D and Maragatham, G worked on the Design of Blockchain enabled intrusion detection model for detecting security attacks using deep learning and Pattern Recognition Letters.
- V. N. V. L. S. Swathi, D. Akhilesh, G. Senthil Kumar, and A. Vani Vathsala published their paper on "Real-Time Driver Distraction Detection Using OpenCV and Machine Learning Algorithms" , Smart Innovation, Systems and Technologies, vol 225, Springer on October 2021.
- Haribaabu V, Joseph James S, Selvakumarasamy S worked on The Lightweight Algorithm for Secure RFID Authentication System in the Journal of Physics: Conference Series on December-2021.
- Dr. A. Revathi not only got funding for IIRS – 005 - Forest species discrimination in Mixed forest scenario & Forest Biophysical parameters retrieval using Synthetic Aperture Radar amounting to 15,65,000.00 on March 2021 from ISRO but also for Forest Species classification using two stage Complex valued Convolutional Neural Network amounting to 10,00,000 .
- M. S. Abirami got funding for not one, not two but for all 3 projects. Firstly there is the AI based Model for Road Accidents Avoidance System which got funded for 306000 on December 2021. Secondly, AI Based Machine Learning Model for Road Accidents Avoidance System got funded for 200000 on November 2021 from the AUAP Research Grant 2021. Thirdly there is the Digitizing Rural Healthcare System for monitoring the Expectant Women got funding from the Tamil Nadu State Council for Science and Technology -2019.
- M. Ferni Ukrit received funding for BONE FRACTURE DIAGNOSIS amounting to 25 Lakhs on July-2018 from DST- Cognitive Science Research Initiative , also received funding for DEVELOPMENT OF ANIMAL DETECTION SYSTEM TO PREVENT ROAD ACCIDENTS IN HIGHWAYS for 394100 Lakhs on Feb-2019 from Tamil Nadu State Council for Science and Technology and finally there is the SMART SYSTEM FOR BONE FRACTURE DIAGNOSIS which got funded for 394100 Lakhs on Feb-2019; Tamil Nadu State Council for Science and Technology.
- R. Siva got funding for IOT -Enabled Integrated Water Management And Distribution Using Machine Learning on Sep 2021 from the Indian Council Of Social Science Research (ICSSR).
- P. C. Karthik got funding for Development Of A Smart Deepfake Detection Tool For Enhanced Cybersecurity on May 2021 from UTM university and also for the Intelligent Price Forecasting System For Optimal Energy Market on May 2021 from UM university.
- A. Alice Nithya who has developed INYC: Interactive Japanese Yoga Coach which requires 13.5 L and is waiting for results from The Sumitomo Foundation, Japan.
- Dr. M. UMA developed the Experimental Investigation on Surface Characteristics analysis of Robot Nano Painting using Carbon Nanotubes with Machine Learning Approach which got Accepted for Evaluation from the SERB-Core Research Grant for a Total cost of Rs. 30,85,655 /- on 15th February 2021.

# RESEARCH

*published*

- Dr. G. Senthil Kumar published 3 patents, firstly 'A System For Validation of Webservices And A Method Thereof'. Secondly 'A System For Automatically Controlling The Speed Of A Vehicle And A Method Thereof' with S. Samsudeen on December 2021. Thirdly 'A System For Managing Requirements Of A Project And A Method Thereof' with Dr. T. S. Shiny Angel on December 2021.
- Dr. S. Vimal, Dr. B. Hariharan and Dr. E. S. Madhan have brought distinction to our department by filing their patents.
- Dr. M. S. Abhirami, "An Image Pre-processing on Iris, Mouth and Palm print using Deep Learning for Biometric Recognition", 2nd Global Conference for Advancement in Technology (GCAT) 2021, published in IEEE Xplore, November 2021 (Scopus Index)
- Maragatham et al., Feature Genuinization based Residual Squeeze-and-Excitation for Audio Anti-Spoofing in Sound AI. IEEE Xplore: 13 November 2021.
- M. Vijaya Kumar, T.S.Shiny Angel, Performing Attack Halting Process with Digital Pattern and Proactive Model Resolving the Security Issues in IoT Based Models, Pattern Recognition Letters, Vol 152, pp 428-435, 2021
- A. Jackulin Mahariba et al. "An Efficient Automatic Accident Detection System Using Inertial Measurement through Machine Learning Techniques for Powered Two Wheelers," in Expert systems with application with impact factor 6.954. appears online on 12 Dec 2021
- Poongothai Elango Raja SP, Nagendra Kumar P. A Novel Ensemble Stacking Classification of Genetic Variations Using Machine Learning Algorithms. International Journal of Image and Graphics. 2021 Dec 31:2350015
- Dr. S. Krishnaveni, "Gaffer: Cloud Computing based Serverless Orchestration Framework for Unprecedented Workflow", IEEE Explore, October 2021
- Dr. Kottilingam K et al Optimized D-RAN Aware Data Retrieval for 5G Information Centric Networks, Journal of Wireless Personal Communications, 30th November 2021
- Dr. Kottilingam K et al Analyzing fibrous tissue pattern in fibrous dysplasia bone images using deep R-CNN networks for segmentation, Journal of Soft Computing, 1st December 2021
- Dr. N. Arivazhagan et al Nanotechnology-Based Sensitive Biosensors for COVID-19 Prediction Using Fuzzy Logic Control, "Journal of nanomaterials", November 2021
- Dr. Shiny Angel et al. Performing Attack Halting Process with Digital Pattern and Proactive Model Resolving the Security Issues in IoT Based Models, Journal of Pattern Recognition Letters, 10th December 2021
- Dr. Annie Uthra, "Autonomous Maintenance in Industrial Revolution 4.0 during Covid-19–A Real Time Approach", IEEE Explore, November 2021
- Mrs. J.V. Vidya, Dr. Annie Uthra, Violence detection in videos using Conv2D VGG19 architecture and LSTM network, CEUR workshop proceedings, 15th November 2021 Anitha mam paper
- D. Anitha, C.G. Anupama and Aditya Kumar Sinha A, Journal of Physics: Conference Series, 2007 (2021) 012052, DOI:10.1088/1742-6596/2007/1/012052, September 2021

# TECHNOLOGICAL *trends*



RPA is a way of automating business processes by encouraging computer machines to imitate human behavior when dealing with digital systems. Software that uses AI and machine learning to manage high-volume, repeatable tasks as well as rule-based tasks those humans do. Across companies and markets, robotic process automation offers direct profitability while improving accuracy. Allowing RPA to manage any procedure would not only transform and streamline the organization's operation, but it will also save you money. It will provide greater enterprise scalability and versatility, as well as a fast, personalized response to specific needs. Software robots are simple to program and incorporate with existing systems. Multiply them as you go, and deploy more as required. They keep you updated on their success so you can use organizational and market predictability to grow even bigger and faster when progressing strategically.

RPA helps organizations to achieve their digital transformation process, Better Customer service, Business operations comply with regulations & standards, improved efficiency by digitizing and auditing process data and Cost savings on manual and repetitive tasks. This workshop helps to aware the participants with the various developing elements and concepts with respect to Robotic Process Automation and help participant to implement digitization in business process.

**Dr B. Hariharan (Assistant professor)**  
**Dr. R. Siva (Assistant Professor)**



winautomation



# HAPPY PONGAL

Pongal, the word itself stirs up the images of beautiful kolams, drawn intricately with bright colored rice flour, homes decorated with mango leaves and flowers, bonfires, drums beating, a pot of sweetened chakkarai Pongal overflowing, the bells tolling around the neck of an ox, harvests of rice, sugarcane, and turmeric, and everyone adorned in new clothes and jewelry. This ancient harvest festival of Tamil Nadu exalts the sun god for making the land fertile and honors cattle, especially oxen for their part in serving man. Traditionally, the holiday marked the beginning of Thai, the tenth month of the Tamil year that ushers in spring. But, in 2008 the Tamil Nadu government proclaimed Pongal, not just a harvest festival but also the New Year.

The first day, 'Bhogi', is celebrated on the last day of the month of 'Margazhi'. On this day, people buy new vessels and clean and decorate their houses. Moreover, there is a tradition to 'burn down' things that are considered to be old to make room for new things. The second day is called 'Perum Pongal', wherein people worship Lord Surya. Devotees decorate the central courtyard of their house with beautiful kolams. On this day, people make chakra pongal (sweet pongal dish) with newly harvested rice and jaggery early in the morning. The third day is 'Mattu Pongal', wherein cattle are worshiped to help farmers in farming.

On this day, the cows are bathed and decorated with vermilion and garlands and fed well. The fourth and last day is called 'Kaanum Pongal'. It is that part of the festival when families gather on the riverbanks and enjoy a sumptuous meal together. Moreover, people also perform many traditional dances such as kummi and kolattam.

Men wear golden zari vetti and angavastram, while women wear traditional pattu sarees or half sarees. Food preparations lay at the heart of Pongal celebrations, with three types of Pongal (Chakarai, Ven, Rava), Pulihogra, Arachuvitta sambar, Ezhukari Kootu, Idli, Dosa, Medu Vada, Poricha Kuzhambu, Kadalai Parappu Payasam, Akkaravadisal, Kesari, Ladoo, Murukku, Omam, Dal vada, Thayir Sadam, Thair Pachadi, Poriyal and many many more.

The aromas are very tantalizing and fill up the house. The food preparations start early in the morning because of the expansive menu and Pongal Sapad is always the best part of the festival!

Pongal brings an abundance of happiness and prosperity into the lives of our hardworking farmers and adds great color and happiness to our lives. The warmth, joy, and sweetness this festival brings in is unparalleled and beyond compare.

HAPPY PONGAL!



# MEET THE TEAM

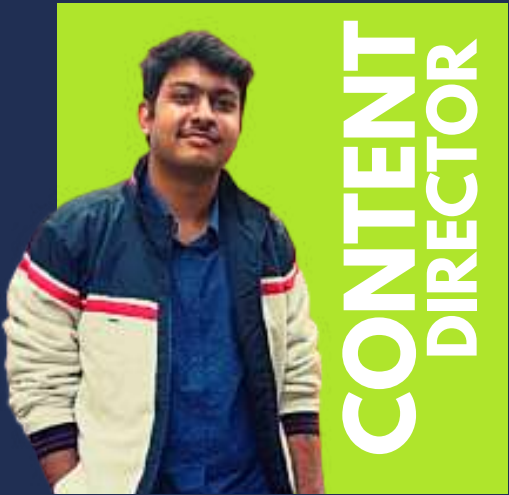
O F C O L O S S A L



Advait Singh



Riya Batla



Samudra Banerjee



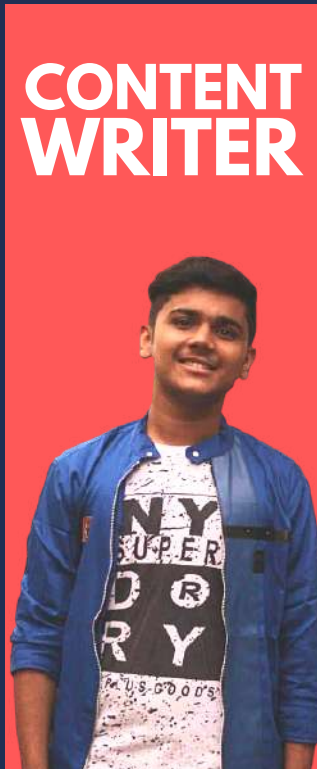
Gopi Krishna D



Sai Deepti Alapati



Mayank Mukherjee



Munshi Afroze Alam



Tushar Roy

# FACULTY WING

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**Dr. B. AMUTHA**  
**PROF, COMPUTING TECHNOLOGIES**  
**NEWSLETTER HEAD, SCHOOL OF COMPUTING**

**Mrs. ANUPAMA C. G.**  
**ASSISTANT PROFESSOR, CINTEL**



**Mrs. D. ANITHA**  
**ASSISTANT PROFESSOR, CINTEL**





தொட்டனைத் தூறும் மணற்கேணி  
மாந்தர்க்குக்  
கற்றனைத் தூறும் அறிவு.



பொருள்  
தோண்டத் தோண்ட ஊற்றுநீர் கிடைப்பது  
போலத் தொடர்ந்து படிக்கப் படிக்க அறிவு  
பெருகிக் கொண்டே இருக்கும்.

**IN SANDY SOIL, WHEN DEEP YOU  
DELVE, YOU REACH THE SPRINGS  
BELOW;  
THE MORE YOU LEARN, THE FREER  
STREAMS OF WISDOM FLOW.**



### *Explanation*

Water will flow from a well in the sand in proportion to the depth to which it is dug, and knowledge will flow from a man in proportion to his learning.

