DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

Presents

C0MP1LESCUE

A QUARTERLY NEWSLETTER | Vol. 1 Issue 1

January - March 2022

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गुरु घासीदास विश्वविद्यालय, बिलासपुर
Guru Ghasidas Vishwavidyalaya, Bilaspur
A Central University established by the Central University Act 2009 No. 25 of 2009

C0MP1LESCUE

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FROM THE DESK OF HON'BLE VICE CHANCELLOR

PROF. ALOK KUMAR CHAKRAWAL
Vice Chancellor, Guru Ghasidas Vishwavidyalaya

I am delighted to know that the Department of Computer Science and Engineering, School of Studies of Engineering and Technology is publishing COMPILESCUE - The Quarterly Newsletter of the department focusing on recent progress in technology, departmental achievements and events. The software education scenario globally has witnessed a significant leap in digitalizing the entire world by connecting every aspiration of the human being to its fullest with some remarkable progress towards mankind.

The department has an excellent track record of vigorously providing a strong platform to our students in achieving great feats and boosting them up in order to make them capable of facing real-world challenges. Hope this newsletter proves to create a dynamic bond between the department and the students.
The Dean of the institute, Head of the Department, Department of Computer Science and Engineering along with the staff members, students and participating students deserve my heartiest congratulations for this wonderful initiative. I wish them a new era of joy and enlightenment.

My best wishes and good luck to everyone.

Prof. Alok Kumar Chakrawal
Vice Chancellor, Guru Ghasidas Vishwavidyalaya
alochak69@gmail.com

FROM THE DESK OF REGISTRAR

PROF. SHAILENDRA KUMAR
Registrar, Guru Ghasidas Vishwavidyalaya

We are living in the digital age of technology where the progress we get is dynamic and spontaneous. The rapid pace of development of the world provided tremendous opportunities for young minds to achieve greater heights. I would like to thank our talented and committed team of academicians who are engaged in the process of turning the School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya into a stronghold of nurturing hard-working students in India.

The track record of achievements of the Department of Computer Science and Engineering is indeed commendable. We are confident that the new initiative of having a quarterly newsletter named COMPILESCUE will also help towards the all-round development of our talented human resources. We are duty-bound to groom and enable students to fulfil their dreams.

My warm wishes to everyone involved in making the newsletter a success.

Prof. Shailendra Kumar
Registrar, Guru Ghasidas Vishwavidyalaya
ggv.registrar@gmail.com

FROM THE DESK OF DEAN

PROF. T. V. ARJUNAN
Dean, School of Studies of Engineering & Technology

A lot has been happening in the School of Studies of Engineering and Technology over the past quarter, and one of the significant changes involves COMPILESCUE, the newsletter by the Department of Computer Science and Engineering. This transition to a digital newsletter publication not only allows us to more efficiently use the resources but also makes us environmentally sustainable, but importantly it gives us more flexibility to share additional resources like photo galleries.

I am delighted by seeing the enthusiasm and energy in the faculties, staff and students of the Department of Computer Science and Engineering which reflects in the achievements section in the newsletter. I would like to praise the department for the remarkable contributions they are making to the larger society, and I am deeply grateful for their active support for the betterment of our school.

My best wishes to the entire team for their outstanding work.

Prof. T. V. ARJUNAN
Dean, School of Studies of Engineering & Technology, GGV
arjun_nivi@yahoo.com

FROM THE DESK OF HEAD OF DEPARTMENT

DR. ALOK KUMAR SINGH KUSHWAHA
HOD, Department of Computer Science & Engineering

With this splendid initiative, We, the Department of Computer Science & Engineering, School of Studies of Engineering & Technology, GGV are going to reach the maximum technological intellects and showcase the accomplishments of the department with "COMPILESCUE", The Quarterly Newsletter, filled with the achievers and with many events organized by us, technologies trending over the tech industry and would probably be game-changing for the upcoming years.

Earlier this year, we were encouraged to see many companies coming to our school, especially our department, which reinforces our belief in the effectiveness of our curriculum. The excellent infrastructure and experienced team of faculty dedicated to strengthening the effective teaching process ensure quality education. We strongly hope our new addition "COMPILESCUE" will prove fruitful in the long run.

My warm wishes to the faculty coordinator, the students' team and everyone involved in making this newsletter a reality.

Dr. Alok Kumar Singh Kushwaha
HOD, Department of Computer Science & Engineering, GGV
alokkumarsingh.jk@gmail.com

LATEST IN
TECHNOLOGY

TWITTER WITH ELON MUSK NOW, AND IT MAY CHANGE IN THESE WAYS

Content moderation to be diluted Mr Musk has equated the content moderation policy of Twitter to stifling free speech. In a Twitter poll in March, he asked users: "Free speech is essential to a functioning democracy. Do you believe Twitter rigorously adheres to this principle?"

More than 70 per cent users who participated in the poll said a resounding no, promoting Mr Musk to ask if a new platform is needed.

Banned users to be allowed back Political activists expect that a Musk regime will see the reinstatement of banned individuals including Donald Trump, who was banned in the wake of Capitol riots in January last year. The former US President has, however, he has no intention of rejoining Twitter even if his account is reinstated. Trump told Fox News that he will instead focus on his own platform, Truth Social.

Twitter algorithm to be open-sourced In a March 24 tweet, Mr Musk suggested that Twitter's algorithm should be open-source. This was again in the form of a poll and 83 per cent of the one million respondents said yes to the idea. The algorithm is used by Twitter to determine which tweets to promote and which to hide from users' feeds. Mr Musk says making it open-sourced will ensure there is no "behind-the-scenes manipulation". He even suggested posting the code on GitHub so that people can look for errors and suggest changes.

Source: NDTV

THE METAVERSE'S EVOLUTION IN THE REAL ESTATE MARKET

While there's been a lot of hesitation towards the metaverse as well, it's safe to say that the interest in the metaverse is still on a steep rise. Metaverse and Real Estate from cryptocurrencies, NFTs, and now even real estate, everything can be purchased in this virtual world. Real estate, especially, has been completely transformed from what it was known to be in the physical world. Digital real estate, called parcels, is available for anyone to buy and sell using the platform's currency and there are already millions that have been put into the market! Not just that, there are also mortgage providers and lenders available to make affording property in the metaverse more possible for users.

What's most interesting is that the utility of the property doesn't have a whole lot of value in the metaverse, of course, since it'll never actually be inhabited. Instead, the focus here is on acquiring property that has great size and location so it can be sold later or leased out. And due to this, as well as the fact that the real estate in this virtual world comes in many different shapes and sizes, the pool of buyers has widened significantly and allowed the purchase of micro land parcels – something one could never do in the real world.. Even companies like Samsung and PwC have invested in these parcels, just waiting for the metaverse to blow up.

Source: Digital Journal
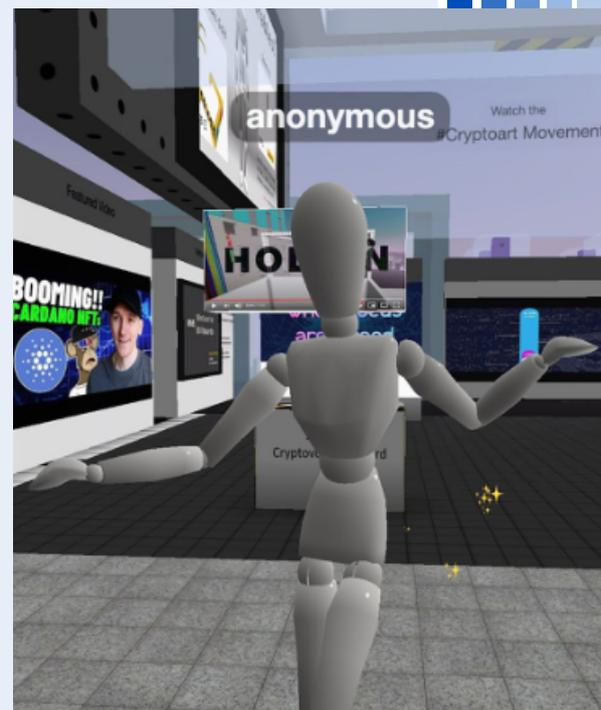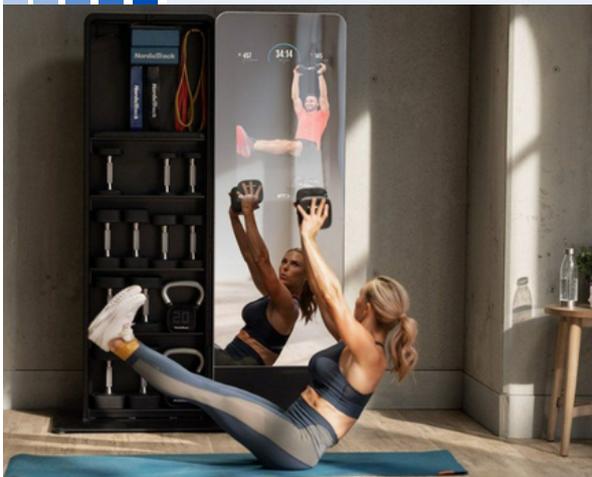
THE HIGH-TECH FITNESS MIRRORS THAT AIM TO GET YOU EXERCISING MORE

A magazine is a periodical publication, which can either be printed or published electronically. It is issued regularly, usually every week or every month, and it contains a variety of content. This can include articles, stories, photographs, and advertisements. On the more advanced devices, the mirror is fitted with cameras and speakers, so the trainer can observe your movements, and suggest tweaks and changes.

Users have the option of live one-to-one lessons or group classes, with a number of workouts, including weights, Pilates, cardio, and yoga. The touch-screen mirrors are also typically fitted with numerous sensors, connected to artificial intelligence (AI), which can give feedback on your movements, and suggest improvements.

Source: BBC

NAB 2022: DISGUISE'S NAB SHOWCASE TO FOCUS ON EXTENDED REALITY TECHNOLOGY

NAB Show is a leading exhibition in the media and entertainment industry connecting the very best in the broadcast field. disguise is on a mission to educate the market about the game-changing benefits of extended reality technology and NAB is the perfect opportunity to do so. Extended reality (XR), an umbrella term used to describe immersive technologies that can merge the physical and virtual worlds, you might be able to shop for a new home anywhere in the world as if you were actually on-site or head to lunch in some faraway land. By 2022, the XR market is expected to reach **$209 billion**, which is eight times what it is today. This tremendous growth could mean the realities of our 2030 lives are beyond our imagination's ability to grasp. XR is an emerging umbrella term for all immersive technologies. The ones we already have today—**augmented reality (AR), virtual reality (VR)**, and mixed reality (MR) plus those that are still to be created. All immersive technologies extend the reality we experience by either blending the virtual and "real" worlds or by creating a fully immersive experience. Recent research revealed that **more than 60% of respondents believed XR will be mainstream in the next five years.**

Source: ZME Science

OPENAI'S DALL-E AI IMAGE GENERATOR CAN NOW EDIT PICTURES, TOO

Artificial intelligence research group OpenAI has created a new version of DALL-E, its text-to-image generation program. DALL-E 2 features a higher-resolution and lower-latency version of the original system, which produces pictures depicting descriptions written by users. It also includes new capabilities, like editing an existing image. One of the new DALL-E 2 features, inpainting, applies DALL-E's text-to-image capabilities on a more granular level. Users can start with an existing picture, select an area, and tell the model to edit it. You can block out a painting on a living room wall and replace it with a different picture, for instance, or add a vase of flowers on a coffee table. The model can fill (or remove) objects while accounting for details like the directions of shadows in a room. Another feature, variations, is sort of like an image search tool for pictures that don't exist. Users can upload a starting image and then create a range of variations similar to it.

Source: The Verge

ARTICLE SECTION

IoT IS A NEED OF TODAY'S LIFE

Faculty Article

" IoT is one of the most important technologies of everyday life. Internet of Things is all around us. IoT changes the lifestyle of humans. In simple terms, IoT connects all physical devices digitally. The digital devices have internet connectivity, sensors, and hardware that provide to communicate with each other via web services. Using IoT we can connect many devices to the Internet and other connected devices. IoT helps to share the data and collect the data from connected devices.

IoT makes any device smarter by providing the ability to send data over the internet and for all devices to communicate with humans and other IoT devices. All IoT devices track the real-time and relay it to us to make our life safer and healthier and more efficient. The smart home is one of the best and the most practical applications of IoT. The IoT connects millions of devices to the internet so it is necessarily making all communication secure.

By Pushpendra Kumar Chandra
Assistant Professor
Department of Computer Science & Engineering

In 2016 one of the most recent IoT attacks was Mirai, the botnet that took down many websites for a while in one of the biggest DDoS (Distributed Denial of Service). Attackers access the network to poorly secured IoT. So, it is necessary to secure efficiently all IoT devices connected to the network.

Nowadays, many companies are using the Internet of Things to simplify, improve, automate and control different processes. The application of IoT technology is unlimited as it is adjustable with other technology. IoT is used in many different areas of our real-life like Wearable devices, Health Monitoring, Traffic Monitoring, Agriculture, Hospitality, Water Supply, Smart Grid etc. In conclusion, IoT Make our Life better and more comfortable.

HUMAN ACTION RECOGNITION

By Dr. Princy Matlani
Assistant Professor
Department of Computer Science & Engineering

Faculty Article

"Human action recognition (HAR) in videos is an active area of research in computer vision and pattern recognition. Nowadays, artificial intelligence (AI) based systems are needed for human-behavior assessment and security purposes. The existing action recognition techniques are mainly using pre-trained weights of different AI architectures for the visual representation of video frames in the training stage, which affect the features' discrepancy determination, such as the distinction between the visual and temporal signs. To address this problem, we can introduce a novel HAR system to learn spatiotemporal features and selectively focus on discriminative cues in long-term sequences for recognizing actions in video frames, which is the most suitable for a surveillance system. Deep learning is now the most dominant and widely used technique for high-level discriminative salient features learning and making end-to-end systems in video-based action and behavior recognition.

Student Article

"MetaTour(Meto) would be the first application that focuses on the world's tourism index and population needs. In this application, our vision navigates over the significance of travel and minimization of the negative effects(natural calamities, plague, pandemics like COVID19/related).
Firstly let's talk about the hit on the whole tourism industry and the loss. And avoidance wouldn't be a solution but minimization is!

With the evolving world into digital, we have to acclimate to the changes but now it makes more sense to upgrade the way we see the world and experience. We need an application that can be ideal and operative to all the questions that newly arise with this solution.

Using the boosting technologies and solution methods, Our application outputs cheaper and faster deals to our digital tourists and lets them experience the stored location data and one hundred per cent satisfaction. Also minding the major loss to the industry by the recent pandemic, we begin with donations to the tourist places and root the awareness of travel & tourism, and let every individual see the tour of the future & past with our digital time machine that supports a dynamic environment.

How can this work as a time machine? Well, after the immaculate intake of the application will be able to let the user visit the places virtually under some terms and conditions.

THE NEXT TIME MACHINE

AR/VR would be the perfect support for our tourism sector and would be an endeavour for our future generations:

- Designing a mobile application, a platform which allows tourists to view and experience a verified tourist place anytime and anywhere.
- The presented solution is to have simulations for the different tourist places in India such as Agra, Amritsar, Ladakh etc.
- The solution provides realistic visuals with the help of VR and should be able to recreate the presence of a better version of the past and future.
- And improvising Technology in the tourism sector would improve engineers hiring rate and give value to both developers and the industry.

By Miss. A. Amrutha sri
4th Semester
Department of Computer Science & Engineering

Student Article

THROTTLING AND RATE LIMITING - RESTRICTIONS ON USAGE

"

Imagine you have designed a distributed software system having 10,000 rows in your databases combined. There is one user, who is trying to fill your 10,000 available rows at once by using automated scripts and taking down your software within seconds. Such practices are quite common in a software market where the competition is at a peak. How are you going to deal with such a problem as a software developer? Turns out, there is a simple way to limit the access of the resources for a specific IP/user.

When we build an API, we allocate a certain number of servers to satisfy the scaling requirements, specifically the request demands. For instance, If we have a college project system, we may only allocate a couple of servers to handle and process incoming traffic. Conversely, if we have a very popular API(Take Google Map for example), we will go ahead and configure a large number of servers. Now we never want a single client or IP to overwhelm our system with tons of requests, resulting in different faults arising in our distributed architecture. We also want our systems to behave in a predictable way and meet a certain agreement as mentioned often in SRS(Software Requirement Specification). In order to do so, we must control the rate of traffic coming from single clients so that it can stay within the limit. Another aspect may be the cost and budget control. We never want unnecessary usage and an unexpected budget at the end of the month.

Softwares can use a variety of techniques to rate limits which simply means if you exceed a certain number of requests per certain time frame, then API will throw you a ThrottlingException. Token Bucket Algorithm is one of the famous techniques to rate limit, which is also used in AWS API. This Algorithm has two major components, burst and refill. Burst defines the number of 'Tokens' that are available for an IP. Refill defines the rate at which the backend service 'refills' new service requests into your bucket. It is basically how fast the backend will give you more tokens to call the API.

APIs are one of the biggest assets of any business. They help the users of a website or mobile applications fulfil their tasks. As the number of users increases, the websites or the mobile application starts showing signs of performance degradation. As a result, users with better connections or faster interfaces might get a better experience than others. API throttling is an elegant solution that helps organizations to ensure fair use of their APIs. REST APIs use API limiting as a protection against DoS attacks and overloaded servers, immediately returning an HTTP 429 error and timing out, forcing the user to send a brand new query. Setting a timeout is the easiest way to limit API requests.

Implementing API choking during a distributed system may be a difficult task. Once the app or service has multiple servers worldwide, the choking ought to be applied to the distributed system. The consecutive requests from an equivalent user may well be forwarded to totally different servers. The API choking logic resides on every node and desires to synchronize with one another in a time period. It may lead to inconsistency and race conditions. One way to implement API throttling in distributed systems is to use sticky sessions. In this method, all requests from a user are always serviced by a particular server. However, this solution is not well-balanced or fault-tolerant. The second solution to API throttling in distributed systems locks.

For better understanding, try the GITHUB API or LINKEDIN API once, and check how rate limiting works.

By Mr. Abhijit Tripathy
6th Semester
Department of Computer Science & Engineering

COVER STORY

Rise of Digital Payments In India

By Mr. Amogh Pravin Pete

6th Semester
Department of Computer Science & Engineering

United Payments Interface (UPI), as of March 29, recorded transactions worth $1.09 trillion in FY22, according to the National Payments Corporation of India (NPCI), which is twice the last year. In March 2022, UPI crossed the five billion number of transactions processed, NPCI 's data revealed. The growth has been tremendous in the six years since its inception.

The success of UPI draws a parallel with the success of Digital India. Online payments that had not even been widely accepted in urban regions of the country now reach even remotely placed towns because of UPI. Not only malls or e-commerce sites but local vendors are too accustomed to this technology.

UPI is also catering internationally, with operations started in countries including Singapore, Bhutan, Malaysia, United Arab Emirates and Nepal in some form the other. More markets are to accept UPI soon.
One of the reasons behind the success of UPI is the JAM (short for Jan Dhan-Aadhaar-Mobile), Trinity of the government, ensuring bank accounts reach the rural population, linked to their Aadhar cards and mobile phones.

Another reason is the quick adoption of the ecosystem by companies like Paytm, PhonePe, WhatsApp, and Google, building their respective payment platforms using the open application programming interface (APIs).

Let us understand how it works and its benefits?

UPI works on the concept of a virtual payment address where Bank accounts, cards and wallets can be mapped to a unique virtual payment address. Because of this, payments are possible to an account number, mobile number or Aadhaar number (virtual payment address). UPI leverages the existing infrastructure for authentication and promotes interoperability between payment service providers.

The use of a virtual payment address affords interoperability and makes
one-click payment possible. With UPI, Funds transfer can get initiated by either the payee or the payer. UPI eliminates the need for exchanging sensitive information, such as bank account numbers, one-time passwords or phone numbers during a financial transaction.

The thing that helped build the trust in UPI is that for transaction failures, NPCI devised a workflow through which a failed transaction is reversed automatically if money has been deducted but not credited to the recipient within one hour.

Concludingly, UPI happens to be a Game-changing electronic payment system that will facilitate the transition to a near cashless economy.

Looking at the projected internet penetration, India will register a billion internet users by 2024, and upcoming technology prospects like metaverse and 5G indicate that UPI has a long journey ahead and many records to break.

Data Source: https://www.npci.org.in/what-we-do/upi/product-statistics

FACULTY ACHIEVEMENTS

- **Dr. Alok Kumar Singh Kushwaha** has published a book on **"Green Computing and its Application"**.

- **Dr. Alok Kumar Singh Kushwaha** has received the honour of being named as guest editor for two renowned SCI journals: **Multimedia tools and application** (SCI Impact Factor: 2.77) and **Computer material and Continua** (SCI Impact Factor: 3.96).

- **Dr. Alok Kumar Singh Kushwaha** has published two Research Paper in a **Reputed SCI Journal**.

- **Mr. Vaibhav Kant Singh**, Assistant Professor is having a PATENT Titled **"Method for Migration of Session among Cipher Machines Using Lagrange Interpolation"**. Published on date 14-01-2022. Patent Application no. 202221000273

- **Mr. Vaibhav Kant Singh**, Assistant Professor has successfully qualified NPTEL-AICTE Faculty Development Program [Funded by the MoE, Government of India] On Topic **Introduction to Soft Computing** during Jan-Mar 2022.

- **Dr. Princy Matlani**, Assistant Professor served as **"Session Chair"** in the International Conference on **Applications of Intelligent Computing in Engineering and Science** (AICES 2022) held from February 12th-13th, 2022 at the National Institute of Technology Raipur, Chhattisgarh, India

- **Mr. Amit Baghel**, Assistant Professor presented a paper entitled **"DepNet: Deep Neural Network-based Model for Estimating the Crowd Count"** authored by **Mr. Amit Baghel, Mr. Pushpendra Kumar Chandra, and Mr. Satish Kumar Negi** at the International Conference on Metaheuristics in Software Engineering and its applications (METASOFT 2022), March 11-12, hosted by the Department Computer Science and Engineering, Faculty of Engineering and Technology (ITER), Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India. **The paper will be published under the Springer book series Artificial Intelligence-enhanced Software and Systems Engineering**.

- **Mr. Satish Kumar Negi, Mr Amit Baghel, Mr. Devendra Kumar Singh and Mr. Pushpendra Kumar Chandra,** are having a PATENT Titled **"A smart wearable device for early detection and identification of COVID-19 cases."**. Published on date 25/3/2022. Patent Application no. 202241012143

STUDENTS ACHIEVEMENTS

- In the I**nternal SIH(Smart India Hackathon) 2022** conducted at SoS(E&T), GGV, Bilaspur.
  - **Ms. A. Amrutha Sr**i, secured the runnesr-up position with her team "TEAM ADHRIT"
  - **Mr. Muttha Yeswanth Kumar, Mr. Y Dhanush Sai Reddy, Mr. Makireddi Kiran Babu, Mr. Thummanapalli Shiva Kumar, Mr, Tankala Gopi, Ms. Geetha Madhuri** secured the runner up position with their team "WEE CODERS"
  - **Mr. Ayush Agarwal, Mr. Ravi Gupta, Mr. Hardik Verma, Ms. Akshansh Verma, Ms. Mummadisetti Devi Prasanna, Ms. Sankineni Aashritha Rao** secured the second runner up position with their team "SMASHERS"
  - **Mr. Atharva Bhawsar, Mr. Vedant Singh and Mr. Ayush Sharma** secured the second runner up position with their team "STINGRAY"

- Following Students completed **IQAC Projects** under the guidance of **Dr. Alok Kumar Singh Kushwaha** and were mentored by their teachers **Mr. Amit Baghel and Mr. Satish Negi.**
  - **Mr Abhishek Kumar Gupta, Mr. Shreyas Kumar Thakur, Mr. Vikram Shishupalsingh Bais, Ms. Astha Garhewal, Mr. Ajay Kumar Shukla, Mr. Amogh Pravin Pete, Mr. Himanshu Gupta, Mr. Yuvraj Singh** and their team build IQAC AQR Software.
  - **Mr. Shreyas Kumar Thakur** and his team built IQAC SSR Software.
  - **Mr. Abhijit Tripathy** built an official website for IQAC GGV.

- **Mr. Abhijit Tripathy** registered his startup named **"Presear Softwares PVT LTD"** with the **Ministry of Corporate Affairs.** His startup is also registered with Startup India and MSME initiatives and got selected for **"The Most Promising Startup Award 2022"** by **IAF (Indian Achievers' Forum)**.

- At the **International Conference on Metaheuristics in Software Engineering and its applications (METASOFT 2022)**, March 11-12, 2022, hosted by, the Department of Computer Science and Engineering, Faculty of Engineering and Technology (ITER), Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India.
  - **Mr. Amogh Pravin Pete** presented a paper entitled **"A Novel Approach for Verifying Selective User Identity Attributes Online using Open Banking APIs"** authored by **Mr. Amogh Pravin Pete, Mr. Himanshu Gupta, Mr. Shubham Varshney, Mr. Pushpendra Kumar Chandra and Mr.Satish Kumar Negi**. The paper will be published in the **Journal of Information and Optimization Sciences (Taylor & Francis)**. This journal is indexed in **ESCI® (Web of Science)**

  - **Ms. Chippada Monisha** presented a paper entitled **"Implicit Methods of Multi-Factor Authentication"** authored by **Ms. Chippada Monisha, Mr. Koli Pavan Kumar, Mr. Pasili Ajay, Mr. Pushpendra Kumar Chandra and Mr. Satish Kumar Negi**. The paper will be published under the **Springer book series Artificial Intelligence-enhanced Software and Systems Engineering**.

PLACEMENTS

S/N	LOGO	NAME OF THE COMPANY	NAME OF THE STUDENT(S)
01	Allstate	Allstate Solutions Private Limited	Abhishek Kumar Gupta, Ankamreddi Vamsi Krishna Raja, Soumyajit Saha, Prity Kumari
02	ALOHA TECHNOLOGY	Aloha Technology	Kishan, Prabuddha Kumar Dwivedi, Prabhakar
03	AMERICAN EXPRESS	American Express	Nishant Kumar
04	BHC CONSULTING	BHC	Gunupuru Praveen Kumar, Hanumanthu Sandeep
05	Capgemini	Capgemini	Hanumanthu Sandeep, Pranjali Priya
06	CGI	CGI	Aditya Kumar, Gunupuru Praveen Kumar, Prabuddha Kumar Dwivedi, Priyanka kumari
07	coditas	Coditas	Pranjali Priya
08	<epam>	EPAM	Suraj Kumar
09	orceBolt	Forcebolt	Anubhav Gupta, Rohan Gupta
10	GEMINI SOLUTIONS	Gemini Solutions Private Limited	Abhishek Kumar Gupta, Vikram Shishupalsingh Bais, Akhil Singh Rajput
11	HashedIn by Deloitte	HashedIn by Deloitte	Nishant Kumar
12	Infosys	Infosys	Aditya Kumar, Amit Kumar, Gunupuru Praveen Kumar, Suraj Kumar, Vikram Shishupalsingh Bais
13	MEDITAB	Maditab	Aditya Singh
14	Mindtree	Mindtree	Ankamreddi Vamsi Krishna Raja
15	MountBlue	Mountblue	Nishant Kumar, Rahul Jangir

S/N	LOGO	NAME OF THE COMPANY	NAME OF THE STUDENT(S)
16	PARK+	PARK+	Vikram Shishupalsingh Bais
17	Persistent	Persistent Solution	Aditya Singh
18	PipingRock	Piping Rock India Pvt Ltd	Deepesh Garg
19	PLANETSPARK	Planetspark	Mahima Shukla
20	Poornam Info Vision	Poornam	Astha Garehwal
21	Principal	Principal Global Services	Deepesh Garg
22	REVATURE	Revature	Aditya Singh, Rajan
23	SASKEN	Sasken technology	Aditya Singh
24		Scholar's Mate	Santosh Kumar Yadav
25	tcs TATA CONSULTANCY SERVICES	TCS	Aditya Singh, Ajay Kumar, Ajay Kumar Shukla, Alok Singh Thakur, Ankamreddi Vamsi Krishna Raja, Anubhav Gupta, Deepesh Garg, Hanumanthu Sandeep, Nishant Kumar, Rohan Gupta, Ruhi Awasthi, Suraj Kumar
26	_VOIS	VOIS	Rohan Gupta
27	wipro	Wipro	Aditya Singh, Aditya Singh, Ajay Kumar, Ajay Kumar Shukla, Akhil Singh Rajput, Alok Singh Thakur, Amit Kumar, Deepesh Garg, Gunupuru Praveen Kumar, Pranjali Priya, Prity Kumari, Suraj Kumar, Vetcha Yaswanthi, Vikram Shishupalsingh Bais
28	Zaggle	Zaggle Fintech	Ajay Kumar Shukla
29	Zemoso	ZeMoSo Technologies	Anubhav Gupta, Nishant Kumar, Suraj Kumar
30	ZIROH Labs	Ziroh Labs	Suraj Kumar

PLACEMENT STATS

HIGHEST PACKAGE
16.6 LPA

AVERAGE PACKAGE
~6 LPA

TOTAL STUDENTS	47	TOTAL OFFERS	74
INTERESTED STUDENTS	37	STUDENTS HAVING 3+OFFERS	12
PLACED STUDENTS	31	STUDENTS ABOVE 10 LPA CTC	02
PLACEMENT PERCENTAGE	84%	STUDENTS BETWEEN 6-10 LPA CTC	15

ON-CAMPUS INTERNSHIPS

S/N	LOGO	NAME OF THE COMPANY	NAME OF THE STUDENT(S)
01	AMERICAN EXPRESS	American Express	Amogh Pravin Pete, Himanshu Gupta, Shubham Varshney

ON-CAMPUS PROJECTS

S/N	LOGO	NAME OF THE PROJECT	NAME OF THE STUDENT(S)
01	ZIROH Labs	Ziroh Labs: Storage Cataloging	Himanshu Gupta, Suraj Patel, Sushil Kumar, Shubham Varshney, Yuvraj Singh
02	ZIROH Labs	Ziroh Labs: Image Filters	Adarsh Saurabh, Vicky Patel, Rishikesh, Praduman kumar

GATE QUALIFIERS

S/N	NAME	RANK
01	Shubham Varshney	1579
02	Shalu Kumari	2899
03	Amogh Pravin Pete	5168
04	Deepesh Garg	6988

# DEPARTMENTAL ACTIVITIES

INTERNAL HACKATHON FOR SIH'22
30th March 2022

The event got inaugurated by the Dean, SoS(E.&T.) Prof. T. V. Arjunan in the presence of Dr Alok Kumar Singh Kushwaha, SPOC, SIH'22 & HoD (CSE), Dr Rohit Raja, HoD(IT). A total number of sixteen(16) teams with around ninety-six(96) students, among which Twenty-two (22) are female participants, participated with their idea and prototype presentation, which included fifteen(15) teams from software and one(1) team from the hardware domain. The jury consisted of faculties from SoS(E.&T.), that included Mr. Kailash Kumar Borkar, Assistant Professor, Department of Industrial & Production Engineering, Mrs. Raksha Pandey, Assistant Professor, Department of Computer Science & Engineering, Mr. Rochak Pandey, Assistant Professor, Department of Civil Engineering, Mr. Prateek Gupta, Assistant Professor, Department of Mechanical Engineering, Dr. Sudha Mishra, Assistant Professor, Department of Information Technology and Dr. Amit Jain, Assistant Professor, Department of Chemical Engineering.

NATIONAL YOUTH DAY CELEBRATION EVENT
12th January 2022
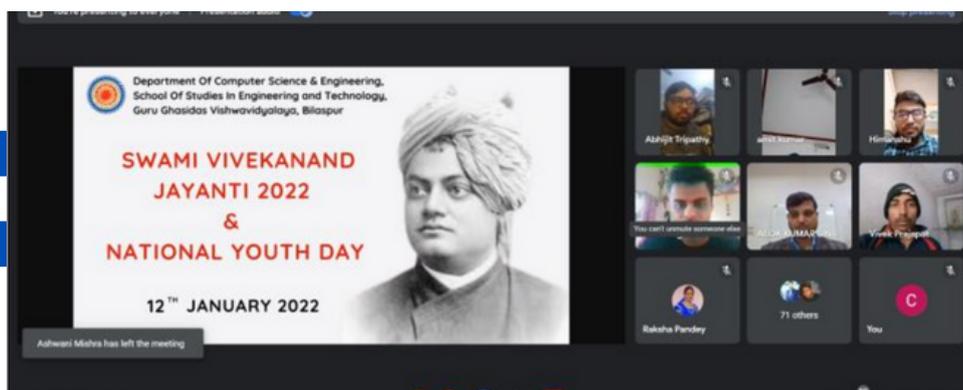
The Department organized a ceremony on the occasion of "National Youth Day 2022" with great enthusiasm. The event was organized virtually on the Google Meet platform from 11.00 AM IST, which perceived the presence of Dr. Alok Kumar Singh Kushwaha, HoD (CSE) and all the faculty members of the Dept. Of CSE and more than 99 students. On this occasion, Mr. Alok Singh Thakur from B.Tech final year and Ms. Himanshi Soni from B.Tech pre-final year presented a comprehensive speech on Swami Vivekanand ji and his life. At the end of the event Mrs. Raksha Pandey has given the vote of thanks.

The Compilesque Team Dedicates this Issue to the Outgoing Batch of 2022

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