

Kumaraguru College of Technology Department of Computer Science and Engineering





CHIEF EDITOR DR. DIVYA VADLAMUDI HOD/CSE & IT, ASSOCIATE DIRECTOR - KSI FACULTY EDITOR MS. N. JEBA AP-II/CSE STUDENT EDITORS KANISHKA.T - 21BCS048 JENIN IMMANUEL J 21BCS044

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Department Events Workshops and Webinars

Bharat Blockchain Yatra

Kumaraguru institution hold: Bharat blockchain yatra

umaraguru School of Innovation (KSI) at Kumaraguru College of Technology (KCT) held a Bharat Blockchain atra (BBY) on September 25. A total of 800 students ttended the event. Speakers included Aditya Saha Blockchain Architect, IBM), Kumaravel N (Solution rchitect and Blockchain Evangelist Ford Technology ervices India), Laisha Wadhwa (Head of Developer elations, Pesto Tech), Venu Borra (Blockchain Architect, tandard Chartered Bank), and Vijay Pravin (Founder and EO bitsCrunch). The event was organised by Informatior ata Systems (IDS), powered by Hedera, and supported b the All India Council for Technical Education (AICTE).



The Bharat Blockchain Yatra was an ambitious initiative in India, focused on exploring Web3 and Blockchain technologies, with its central mission being the illumination of India's journey in the realm of Blockchain. The Bharat Blockchain Yatra (BBY) event, organized by Information Data Systems (IDS), powered by Hedera, and supported by the All-India Council for Technical Education (AICTE), was hosted by the Kumaraguru School of Innovation (KSI) at Kumaraguru College of Technology (KCT) on September 25, 2023.

The event garnered

significant attention, drawing a crowd of 800 participants, including students,

faculties, media personnel, and industry experts from all corners of the state.

The event presented a star-studded lineup of speakers, featuring notable Blockchain Thought Leaders and esteemed Industry Experts.

Among these luminaries were

Mr. Aditya Saha, Blockchain Architect IBM;

Mr. Kumaravel N, Solution Architect and Blockchain Evangelist Ford Technology Services India;

Ms. Laisha Wadhwa, Head Developer Relations Pesto Tech;

Mr. Venu Borra, Blockchain Architect Standard Chartered Bank and

Mr. Vijay Pravin, Founder and CEO BitsCrunch.

BHARAT BLOCKCHAIN YATRA

Expert Talk 1: Beyond Transparency - Leveraging zk-SNARKs for Confidential Transactions

The event commenced with an insightful talk on zk-SNARKs and their role in enabling confidential transactions within blockchain networks. Attendees gained a deeper understanding of privacy-preserving techniques and their applications.

Activity 1: Experience the Showcase of Polyversity: The World's Largest Educational Metaverse

Participants had the opportunity to explore Polyversity, the world's largest educational metaverse, gaining hands-on experience in this innovative virtual world. This activity demonstrated the potential of blockchain and metaverse technologies in education.

Expert Talk 2: Post-Quantum Cryptography in Blockchain: Securing the Future

The second expert talk emphasized the importance of post-quantum cryptography in safeguarding blockchain networks from quantum threats. Attendees learned about the cutting-edge cryptographic techniques required to secure the future of blockchain.

Expert Talk 3: Threshold Signatures for Multi-Party Transactions - Strengthening Security and Decentralization

This session focused on the concept of threshold signatures and their significance in enhancing the security and decentralization of multi-party transactions within blockchain networks. Attendees explored the practical applications of this technology.



BHARAT BLOCKCHAIN YATRA

Expert Talk 4: Bulletproofs: Efficient Range Proofs for Privacy-Optimizing Blockchain Transactions

The fourth expert talk introduced attendees to bulletproofs, a technique for efficient range proofs in blockchain transactions. The presentation highlighted how bulletproofs can optimize privacy while maintaining transaction efficiency.

Panel Discussion: Web3 Governance - Decentralized Autonomous Organizations (DAOs)

A panel of experts engaged in a lively discussion on Web3 governance, focusing on the role of Decentralized Autonomous Organizations (DAOs). Attendees gained insights into the challenges and opportunities associated with decentralized governance structures.

Expert Talk 5: Cryptoeconomic Primitives: The Cryptographic Foundations of Blockchain Economics

The fifth expert talk delved into the cryptographic foundations of blockchain economics, explaining the key principles and primitives underpinning the crypto-economic ecosystem. Attendees gained a deeper understanding of the economic aspects of blockchain.

Workshop: Navigating the Web3 Ecosystem - From Concepts to Real-World Applications

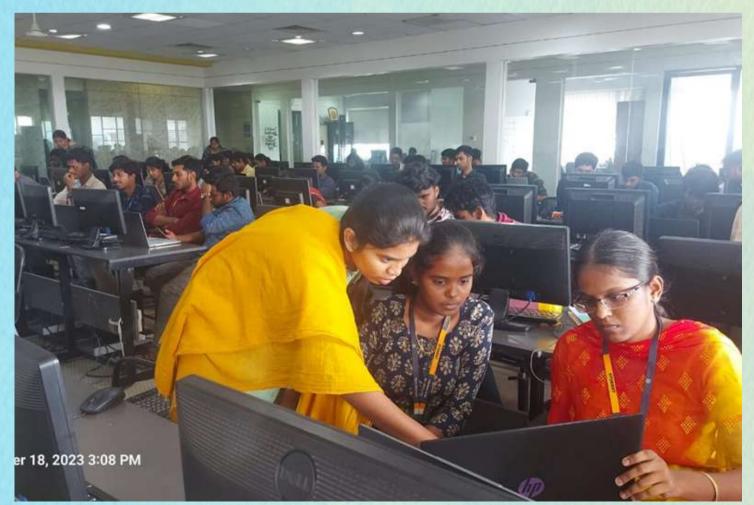
A practical workshop provided attendees with the opportunity to explore the Web3 ecosystem and its real-world applications. Participants gained hands-on experience and practical insights into this rapidly evolving space.

Blockchain Business Model Canvas - How Blockchain and Web 3.0 Are Transforming Modern Business Strategies

The event concluded with a session that examined how blockchain and Web 3.0 technologies are transforming modern business strategies. Attendees learned about innovative business models and strategies enabled by blockchain technology.

Application Development using Django Framework and MongoDB

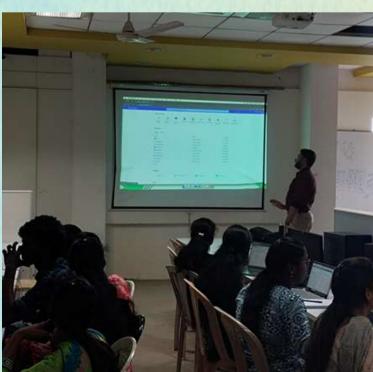
Owing to advancements in technology and job opportunities, Django is considered as an extremely valuable tool to learn and manage Big data. Industry Oriented Training on "Application Development using Django Framework and MongoDB" was organised by the Department of Computer Science & Engineering on October 18-19,2023 for III Year CSE students. Industry experts from Pinesphere : Digital Solutions, IT Services- Ms.Kaviya and Ms.Nandini conducted hands-on session with various real time use cases. The Hands-on training enabled students to explore full stack web development framework, create application and integrate MongoDB with Django framework. Students were able to acquire rapid application development skills and understand the core concepts for industry projects in all aspects, thereby by bridging the gap between Industry and Academia. This was an initiative to kickstart prospective career opportunities in the domain of web development.



Hands-on Training for Microsoft Azure : 900 Certification

CSE Department organized a "Hands-on Training on Microsoft Azure : 900 Certification" for the KSI Students and faculty on 19th August 2023 and 2nd September 2023 (2 Days). The event was informative and highly valued programme that aimed to provide necessary knowledge and practical skills to flourish in the exciting field of cloud computing with Microsoft Azure. Mr. Jerald Felix, an industrialist, demonstrated cloud computing concepts, its significance, and the benefits. Faculty can level-up their technical skills related to Microsoft Azure and enable them to stay up-to-date with current technology trends. Hands-on training allows to gain practical experience using Azure services, which can be valuable when explaining complex technical concepts to students. Participants both students and faculty got to know the fundamentals of Azure as well as techniques for AZ-900 certification exam preparation.





STUDENT CORNER

- Kanishka.T (21BCS048) has completed 2 Months certification course on "AICTE virtual internship on data analytics" offered by AICTE from 01.05.2023 to 07.07.2023.
- Baalaji N V (21BCS014), Mohamed Fatheem M(21BCS068) and Mrithika C M (21BCS075) has won first prize in Reality Experience Fest-2023 organized by KGISL group of companies , Coimbatore on 14.10.2023.
- Rajesh Kanna R (21BCS098), Aadhavan R (21BCS001) and Sabitha C (21BCS102) has Participated in Reality Experience Fest-2023 organized by KGISL group of companies , Coimbatore on 14.10.2023.
- Subharanjini M (21BCS123) and Abarna V (21BCS002) from Third year has participated in the events as part of ngineers day Celebration at Bosch Global Software Technologies (BGSW) on 15.09.2023.
- Baalaji N V (21BCS014), Dhivakar S (21BCS020) and Mrithika C M (21BCS075) from third year CSE has participated National Level Hackathon "Hack the metaverse" and Won cash prize worth of Rs 10,000 conducted in IIIT-Bangalore on 15.09.2023
- Rajesh Kanna R (21BCS098), Aadhavan R (21BCS001) and Sabitha C (21BCS102) from third year CSE has participated National Level Hackathon "Hack the metaverse" conducted in IIIT-Bangalore on 15.09.2023.

STUDENT CORNER

• Kanishka.T (21BCSO48) has won Best outgoing student of first year for the Academic year: 2021-2022

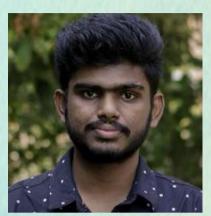


CONGRATULATIONS

CSE department congratulates the following students and faculty who are Unity certified Associate Game Developer



Dr. S Nithya



Rajesh Kanna R 21BCS098

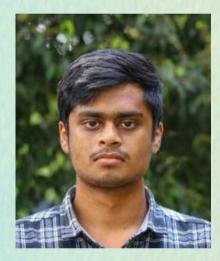


Baalaji N V 21BCS014



Mythili Sekar Sriram

21BCS077



Murugesan V 21BCS076



Aadhavan R 21BCS001



Sabitha 21BCS102

STUDENT CORNER



Divyadharshini.G 21BCS023



Mrithika CM 21BCS075



Kaviya Priya 21BCS053



K.Swetha 21BCS127

FACULTY CORNER

BOOK CHAPTER :

- Cynthia Jayapal, Clement Sudhahar, (2023), Novel Research and Development Approaches in Heterogeneous Systems and Algorithms, Chapter 6- Distributed Technologies and Consensus Algorithms for Blockchain, IGI Global Publisher, pp 100-123, ISBN13: 9781668475249.
- Cynthia Jayapal, Srinivasan, S. (2023). Healthcare System Modeling and Security Engineering. In: Raj, J.S., Perikos, I., Balas, V.E. (eds) Intelligent Sustainable Systems. ICoISS 2023. Lecture Notes in Networks and Systems, vol 665. Springer, Singapore. https://doi.org/10.1007/978-981-99-1726-6_18.
- Cynthia Jayapal. Yamuna, S.M. Manavallan, S. Devasenan, M. (2023). Detection of Mental Health Using Deep Learning Technique. In: Sharma, H., Shrivastava, V., Bharti, K.K., Wang, L. (eds) Communication and Intelligent Systems. ICCIS 2022. Lecture Notes in Networks and Systems, vol 689. Springer, Singapore. https://doi.org/10.1007/978-981-99-2322-9_37
- Cynthia Jayapal, Sakthipriya, G. Sudhahar, J. C. Suguna, M. (2024). Intelligent Transportation System: A Review of VANET Applications for Urban Areas, Technologies, and Protocols. Sustainable Digital Technologies for Smart Cities:Healthcare, Communication, and Transportation, CRC Press. (pp. 99-112). eBook ISBN9781003307716
- Baskaran, K. R. & Kaviya, B. (2023). Stock Market Prediction Using Machine Learning and Deep Learning Algorithms. Sustainable Digital Technologies for Smart Cities: Healthcare, Communication, and Transportation, CRC Press. (pp. 127-138). eBook ISBN9781003307716
- P Saranya, N Jeevitha, V Senthil Kumar (2022), Cognitive Wireless Sensor Networks", Cognitive Sensors, Volume 1, pp 1-27. ISBN 978-0-7503-5326-7.

- Sumathi, V, P. Kalaiselvi, R. Amritha, A. & Atshayasri, R. (2023). An Exploratory Data Analysis on Cardiovascular Disease. Sustainable Digital Technologies for Smart Cities: Healthcare, Communication, and Transportation, CRC Press. (pp. 195- 205). eBook ISBN9781003307716
- Latha, L. (2023), Obstacle Avoidance and Image Recognition System, Sustainable Digital Technologies for Smart Cities: Healthcare, Communication, and Transportation, pp. 71-80. DOI 10.1201/9781003307716-7
- Rajini, S. (2023). Zeta A Web Based Restaurant Suggesting Chatbot. Sustainable Digital Technologies for Smart Cities: Healthcare, Communication, and Transportation, CRC Press. (pp. 65-71) eBook ISBN9781003307716

JOURNAL:

- Cynthia, J. Adithya, G. Raajakishore, R. Amudhan, S. M. (2022). Literature Survey On Certificate Authenticity Verification Solutions Using Blockchain Technology. International Journal for Science and Advance Research In Technology, 8(6), 835-838.
- M. N. Saroja and K. R. Baskaran (2022), Algorithm for Optimal Power Performance in Body Area Network in Smart Wearable Patches for Environmental Applications, Journal of Environmental Protection and Ecology 23, No 6, pp.2580–2588.
- Sathyavathi, S., Baskaran, K. R. (2023). An Intelligent Human Age Prediction from Face Image Framework Based on Deep Learning Algorithms. Information Technology and Control, 52(1), pp:245-257. https://doi.org/10.5755/j01.itc.52.1.32323.
- Sathyavathi, S. Baskaran, K, R. (2023) Human Age Estimation Using Deep Convolutional Neural Network based on Dental Images (Orthopantomogram), IETE Journal of Research, https://doi.org/10.1080/03772063.2023.2165177

- Swathi Subramaniam, Jai Shiddharth Essaki, Jayant Shankar, Dr.K.R.Baskaran (2023), Integrating Multi-Modal Features of ECG and PCG to Predict Heart Diseases, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 12, Issue 4, pp.3629-3636.
- Geethakarthi,A., Santhiya,B., Sumathi,V P. (2022). Household Carbon footprint Assessment across an Urban Area, Tirunelveli of India. Ambient Science, 09(3), 42-46, DOI:10.21276/ambi.2022.09.3.ta03.
- Kanagaraj, G. Subashini, G. (2023). Uniform distribution elephant herding optimization (UDEHO) based virtual machine consolidation for energy-efficient cloud data centres. Automatika, 64(3), 529-539, DOI: 10.1080/00051144.2023.2196116.
- Apinaya, Prethi, K.N. Sangeetha, M. Nithya, S. (2023).Optimized Scheduling with Prioritization to Enhance Network Sustainability in Edge-cloud Environment. Journal of Intelligent & Fuzzy Systems. 44(3), 4323-4334.
- Karthigha, M. Latha L., (2023), Clustered ensemble feature selection with M-GRU classification for efficient intrusion detection system of industrial systems, Journal of Intelligent and Fuzzy Systems, Volume 44, Issue 6, Pages 9109 – 9127, DOI. 10.3233/JIFS-222643
- G. Prema Arokia Mary and N. Suganthi, "Detection of Parkinson's disease with multiple feature extraction models and darknet cnn classification," Computer Systems Science and Engineering, vol. 43, no.1, pp. 333–345, 2022.
- Chandrakala, D. Pradeepa, P. Meyyammai, M. Mohamed, Aakil, S. (2023, August). Personality Trait-Aware Educational Suggestion Platform. Internatioanal Journal of Computer Applications. 185(29), 46-54.

International Conference Proceedings: :

- Bharathi Priya, C. Vishal, K, B. Rajendira, Shivaramakrishnan. & Devasenan, Murugan. AI based Smart Parking System. (2023). 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Coimbatore, India, 2023, (pp. 1-6). doi: 10.1109/ICAECA56562.2023.10200147.
- Senthilkumar, V. Devasenan, M. Karan, J. Ravina, C. Sneka, V. & Kavipriya, T. Permission-Based Android Malware Identification. (2023). 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Coimbatore, India. (pp. 1-6). doi: 10.1109/ICAECA56562.2023.10200377.
- Senthilkumar, V. Sheela, J. A. Jayashree, N. Radha, B. Saranya, P. & Devasenan, M. Integrating AI and Computer Vision for Creating a Virtual Mouse. (2023). 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Coimbatore, India. (pp. 1-5). doi: 10.1109/ICAECA56562.2023.10200458.
- Senthilkumar, V. Jayaahari, Aditiya, M. K. Devasenan, M. Ashmita, A. Pavithiraa, S, M. & Rubhini, P. Certificate Storage and Verification using Blockchain. (2023). 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Coimbatore, India. (pp. 1-6). doi: 10.1109/ICAECA56562.2023.10199919.
- Sumathi, V. P. Vanitha, V. & Kalaiselvi, R. (2023, June). Performance Comparison of Machine Learning Algorithms in Short Message Service Spam Classification. In 2023 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA) (pp. 1-4). IEEE.

PLACEMENT DETAILS

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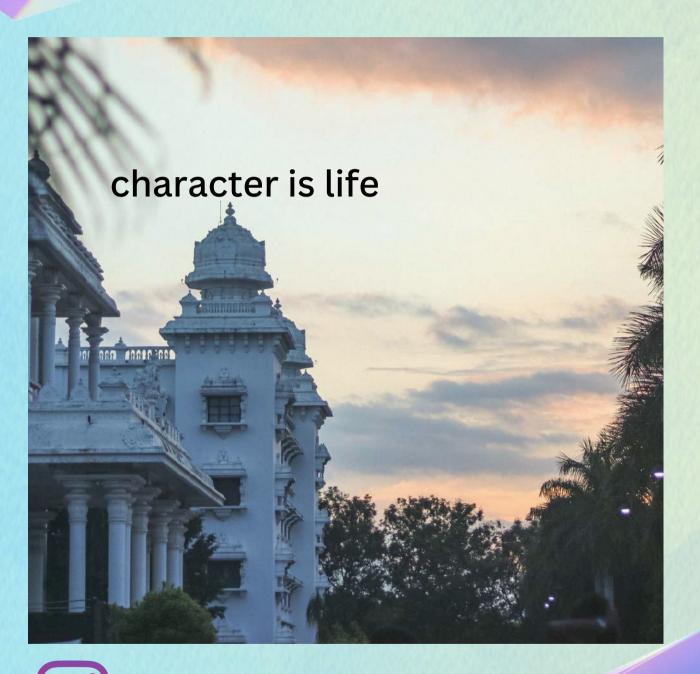
| ROLL NO | NAME | Salary Package In Lakhs | company |
|----------|----------------------------|-------------------------|---------------------|
| 20BCS001 | Abhay M | 17.5 | HPE |
| 20BCS009 | Amitha Das C | 8 | e2open |
| 20BCS014 | Ashmita A | 12 | Hyperverge |
| 20BCS026 | Dhanushkumar S G | 12 | Appviewx |
| 20BCS027 | Dhanya.S.S | 9.25 | Tekmedia |
| 20BCS028 | Dharunika Namagiri B V | 6 | ERP Roots |
| 20BCS030 | Dhyanesh M | 6 | Hyperverge |
| 20BCS037 | Harishini S | 5 | Avasoft |
| 20BCS038 | Harsh Choudhary | 8 | Transunion |
| 20BCS044 | John Ebin M | 4.2 | Mallow technologies |
| 20BCS046 | Kamal Prasath T | 5.5 | Maple labs |
| 20BCS050 | Karthikeyan K | 6.5 | Clar technologies |
| 20BCS055 | Khavya S | 8 | Transunion |
| 20BCS058 | Latha M H | 8 | Transunion |
| 20BCS066 | Vijayaditya N | 17.5 | HPE |
| 20BCS071 | Priyanka N | 8 | e2open |
| 20BCS072 | Pugalarasan M | 8 | e2open |
| 20BCS073 | Puja Shri Sk | 6.5 | Clar technologies |
| 20BCS074 | Rajsre A | 5 | Incture |
| 20BCS079 | Rubhini P | 8 | Rently |
| 20BCS081 | Saifullah N | 12 | Hyperverge |
| 20BCS083 | Samyuktha Rajesh | 17.5 | HPE |
| 20BCS085 | Santhosh Sj | 6.5 | Desk365 |
| 20BCS090 | Sindhanai Sirpy S | 4.2 | Mallow technologies |
| 20BCS091 | Sneha.T | 7.58 | Esko graphics |
| 20BCS095 | Subbu Lakshmi Sruthi M S R | 12 | Hyperverge |
| 20BCS100 | Suryaprakash P | 12 | Hyperverge |
| 20BCS106 | Thusneem Banu A | 8 | e2open |
| 20BCS212 | Suman K | 5 | Avasoft |
| 20BCS053 | Kavimani S | 4.5 | UST |
| 20BCS113 | Vishnu Jayanth S | 4.5 | UST |
| 20BCS052 | Kashika M | 5 | Musigma |
| 20BCS054 | Keerthika S | 5 | Musigma |
| 20BCS024 | Deepthi | 4.5 | Accenture |
| 20BCS051 | Karthikeyan R | 4.5 | Accenture |
| 20BCS105 | Thivya | 4.5 | Accenture |
| 20BCS112 | Vishaalini RM | 4 | Kovai.co |
| 20bcs077 | RITHANISILAMBU | 7 | INTELLETYX |
| 20BCS032 | GOKUL | 7 | ZOHO |
| 20BCS063 | NANDANA | 7 | ZOHO |
| 20BCS087 | SHANKARNAARAYANAN | 7 | ZOHO |



INTERNSHIPS

| S.NO | ROLL NUMBER | NAME | NAME OF COMPANY | START DATE | END DATE | STIPEND (in Rs) |
|------|-------------|-------------------------------|---|------------|------------|--------------------|
| 1. | 20BCS003 | Abhinesh M | Unicare International, Erode | 15/07/2023 | 30/08/2023 | 10,000 |
| 2. | 20BCS013 | Archana M | Cove Solutions, Pvt Ltd, Coimbatore | 14/08/2023 | 29/09/2023 | NA |
| 3. | 20BCS014 | Ashmita A | Hyperverge Technologies Pvt Ltd, Bengaluru | 01/08/2023 | 01/05/2024 | 35,000 |
| 4. | 20BCS019 | Badhrinathan S B | DHS Informatics, Bengaluru | 24/07/2023 | 30/09/2023 | 20,000 |
| 5. | 20BCS026 | Dhanushkumar S G | Go Thrive Technologies, Coimbatore | 01/08/2023 | 01/10/2023 | NA |
| 6. | 20BCS027 | S S Dhanya | Tekmedia Software,Coimbatore | 19/09/2023 | 31/12/2023 | 15,000 |
| 7. | 20BCS028 | Dharunika Namagiri B V | ERP Roots Pvt Ltd, Coimbatore | 04/09/2023 | 04/03/2024 | 50,000 |
| 8. | 20BCS045 | Joshua A | Aviontive LLP,Coimbatore | 15/06/2023 | 14/12/2023 | 20,000 |
| 9. | 20BCS047 | Kanissha P P | Saama Technologies, Coimbatore | 27/02/2023 | 28/08/2023 | 25000 |
| 10. | 20BCS050 | Karthikeyan K | Clar Technologies Pvt Ltd Coimbatore | 01/07/2023 | 01/07/2024 | 30,000 |
| 11. | 20BCS063 | Nandana S P | Go Thrive Technologies, Coimbatore | 01/08/2023 | 01/10/2023 | NA |
| 12. | 20BCS055 | Khavya S | Mallow Technologies Pvt Ltd Karur | 12/08/2023 | 12/11/2023 | NA |
| 13. | 20BCS072 | Pugalarasan M | FRESHDGITAIL CONSULTING SERVICES PVT LTD, Bengaluru | 21/07/2023 | 31/10/2023 | 10,000 |
| 14. | 20BCS073 | Puja Shri | Clar Technologies Pvt Ltd Coimbatore | 01/07/2023 | 01/07/2024 | 30,000 |
| 15. | 20BCS079 | Rubhini P | Rently Software Development Pvt Ltd, Coimbatore | 03/07/2023 | 23/11/2023 | 18,000 |
| 16. | 20BCS081 | Saifullah N | Hyperverge Technologies Pvt Ltd, Bengaluru | 03/07/2023 | 01/05/2024 | 35,000 |
| 17. | 20BCS083 | Samyuktha Rajesh | Indian Institute of Management, Bangaluru | 16/08/2023 | 13/10/2023 | 10,000 |
| 18. | 20BCS085 | Santhosh S J | Kani Technologies Pvt Ltd, Coimbatore | 01/07/2023 | 30/04/2023 | 15,000 |
| 19. | 20BCS087 | Shankaranaarayanan D T | Saama Technologies, Coimbatore | 27/02/2023 | 28/08/2023 | 25000 |
| 20. | 20BCS095 | Subbu Lakshmi Sruthi M S R | Hyperverge Technologies Pvt Ltd, Bengaluru | 03/07/2023 | 01/03/2024 | 35,000 |
| 21. | 20BCS100 | Suryaprakash P | Hyperverge Technologies Pvt Ltd, Bengaluru | 01/08/2023 | 01/05/2024 | 35,000 |
| 22. | 20BCS112 | Vishaalini R M | Kovai.Co, Coimbatore Beyond Sustainability, | 25/10/2023 | 25/04/2024 | 15,000 |
| 23. | 20BCS212 | Suman K | Coimbatore | 10/10/2023 | 01/01/2024 | 20,000 |

"Success is the sum of small efforts, repeated day in and day out." — Robert Collier





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