

UG ACHIEVERS DIRECTORY 2019-20



ACKNOWLEDGEMENT

Embracing the Ecstasy of completion of one more edition of The UG Achievers Directory, The Branding and Relations Cell (BARC) is pleased to express its immense gratitude to the Dean, International Relations as well as to the Office of Alumni Affairs and International Relations. We are grateful to them for supporting our initiatives and encouraging us for our new thoughts and we are really overwhelmed for not letting us down ever.

The Branding and Relations Cell (BARC) would also like to thank Ms. Shreyoshi Ghosh, Executive Officer (Media & Communication) IIT Kharagpur, Office of Director for believing in us and supporting us in all our initiatives.

C CONTENTS

Introduction What is UG Achievers Directory?	1
Messages From the Director From the Dean, Outreach From the Associate Dean, Alumni Affairs and Branding From the Associate Dean, International Relations From the Dean, Students' Affairs	2-6
Individual Achievements	9-49
Group Achievements	51-67
The Branding and Relations Cell Team Senior Coordinators Student Members	68-69
Message from the General Secretaries	70

INTRODUCTION

The UG Achievers Directory features the IIT Kharagpur undergraduate students who have had remarkable achievements in the given academic year. It is an initiative of the Branding and Relations Cell, led by the Dean, International Relations. The directory features various accomplishments in avenues such as National/International competitions, Inter IIT, Industrial R & D, Publications, and patents, etc.

A form is circulated by the Branding and Relation Cell to all the UG students through social media pages and via mails. Students interested in getting featured in the directory are asked to provide details of their achievements and proof of their accomplishments. The best achievements are shortlisted from all the entries received, cross verified, and then featured in the Institute's directory. This year's directory categorizes the student's accomplishments into two categories- Individual achievements and Group achievements.

The first edition, UG Achievers Directory 2018-19, was released by the Director of our Institute, Prof. Virendra Kumar Tewari, in July 2020. The directory has successfully motivated IIT Kharagpur students to excel in their fields of interest and helped them realize their enormous potential and talent, and will continue to do the same.

MESSAGE FROM THE DIRECTOR



Prof. Virendra Kumar Tewari

I applaud my students for their commendable efforts. I also congratulate the branding and relations cell of the institute for this noble initiative. Adversities give students an opportunity to redefine their potential. As a learning institution, they are always on the path of development and growth. We believe that every student is unique in his/her own way and here we give the students their “happy hunting ground” to realize their own potential. The reverse role play has brought out the hidden talents of the students as it has created a new window of learning for them. We wish to encourage them to do their best always and take challenging problem solving approach. They must remain always inquisitive, innovative and look for out of the box ideas/solutions. I wish them all the very best in their future endeavors and hope they would always succeed.

MESSAGE FROM THE DEAN, OUTREACH



Prof. Jayanta Mukhopadhyay

"Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do."- Pele

I heartily congratulate to all our laureates on their well- deserved success. I am very pleased to see our students accomplishing great things. These laureates are the proof that good things come to those who are willing to sacrifice to reach a worthwhile goal. I cannot express my words how proud I am today.

At IIT Kharagpur, we look forward to provide our students with facilities, guidance and support in order to support them to excel in different fields. The institute offers a wide varieties of novel opportunities for its students for all- round development.

I always suggest my students to take up new challenges to prove themselves and focus on developing new skills which will be a differentiator and help them to stand out in the highly competitive world. Never give up and always try harder again and again when you fail, definitely success will come along your way.

I would also like to congratulate the students' body of Branding and Relation Cell of our institute for publishing such a wonderful "UG Achievers Directory" which would support every other students to strive to design their individual map towards success. All the best wishes!

MESSAGE FROM THE ASSOCIATE DEAN, ALUMNI AFFAIRS AND BRANDING



Prof. Surjya Kanta Pal

IIT Kharagpur uses all the tools to inspire and encourage its students to think, express and exhibit their skills. Also, I am very proud of the students' body of the Branding and Relations Cell for taking an excellent initiative in publishing such a wonderful Undergraduate Achievers' Directory which provides clear evidence of the remarkable achievements of our students, those who are performing incredibly in different fields.

Always remember, in your life, you will face many bad and hard times. Never lose hope. Rather, be confident and work hard to get your dream. You all are capable of anything you set your minds to achieve. All the best wishes!

MESSAGE FROM THE ASSOCIATE DEAN, INTERNATIONAL RELATIONS



Prof. Anandaroop Bhattacharya

I am pleased to write this note for the 2nd edition of UG Achievers Directory of IIT Kharagpur. This is an institution where I myself spent the formative years of my life, an institution that taught me the value of all round development and gave me the opportunity to venture into various co-curricular and extra-curricular activities. These were the associations and memories that drove me to come back here after 18 years (since graduation). It's therefore a delight when I see all of you excel in the various activities outside of classroom, and in the process develop into well-rounded, multi-dimensional, empathetic human beings. As I had said last year as well, please go ahead and make the full use of the opportunities available in this campus (while keeping your focus on academics), share the space with your fellow students, and mentor your juniors. Each one of you is a champion. This directory is a recognition of all of you through some of your fellow achievers. May you all go miles in your career and emerge as champions in life!

MESSAGE FROM THE DEAN, STUDENTS' AFFAIRS



Prof. Somesh Kumar

Warmest congratulations on your achievement. You are an inspiration to many and a promise of great things ahead. IIT Kharagpur has been continuously engaged in providing the world class facilities to its students as well as to support and encourage them to explore their potential. Our students are the greatest asset of our institute. The widespread acclaim of IIT Kharagpur has been established through the achievements of its students, who are achievers in their own right, excelling in academics, sports, debate, quiz, the performing arts and various others cultural activities. This catalogue of the achievements of undergraduate students in the year 2019-20 is just an indication of the talent, hard work and enormous potential of IIT Kharagpur's students. Excellent job has been done by our students, they made us proud. Always remember that you are made for the top. Always keep faith in yourself, go the extra miles and be above all the equals. Keep shining.



**“He who is prepared for the future and
he who deals cleverly with any situation
that may arise are both happy.”**

chanakya

an ancient Indian teacher,
philosopher, economist,
jurist and royal advisor.

INDIVIDUAL ACHIEVEMENTS

**“ARISE, AWAKE, AND
STOP NOT UNTIL
THE GOAL IS ACHIEVED.”**

- SWAMI VIVEKANANDA

Aadi Swadipto Mondal

EC | LBS | 2021

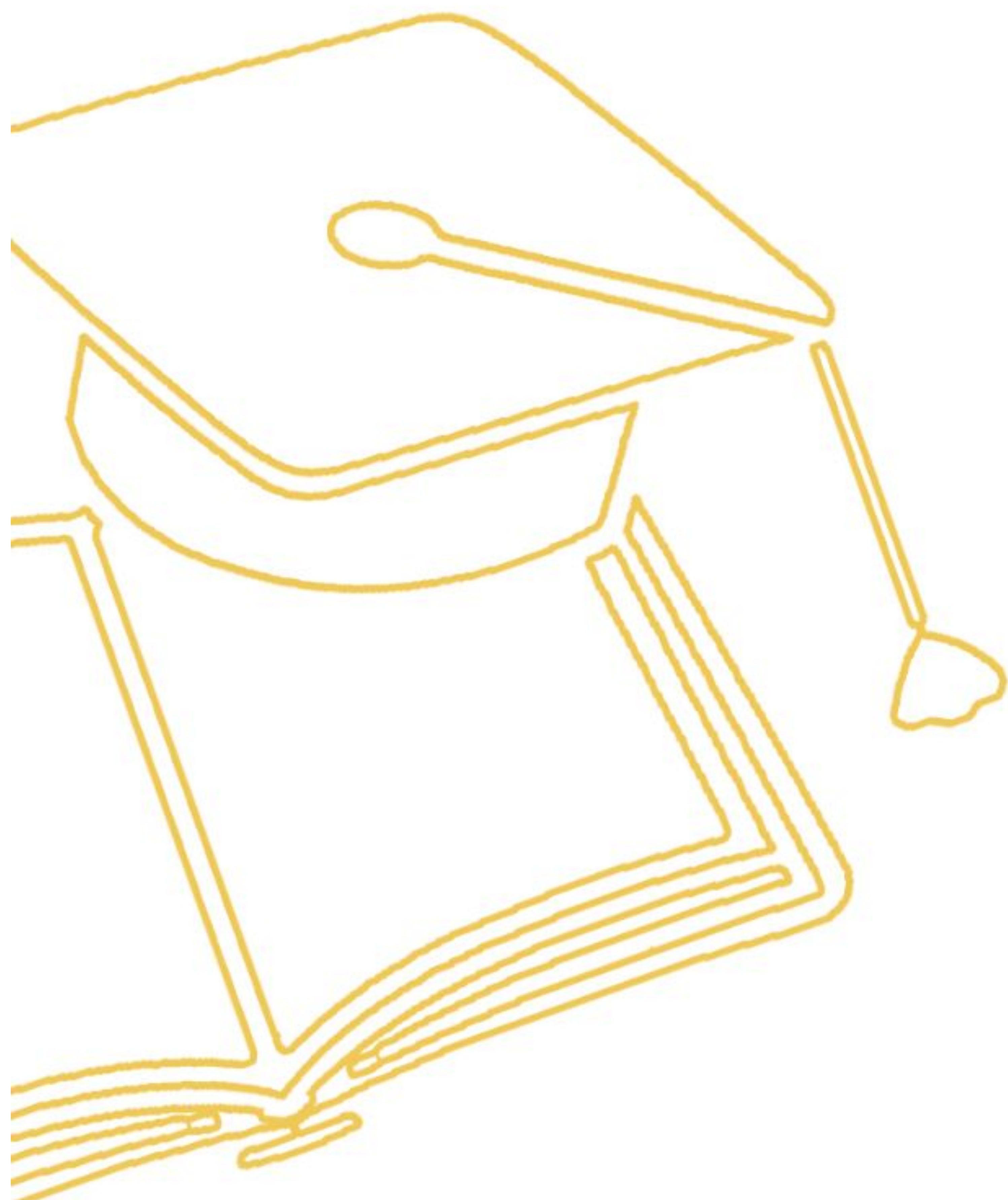
1. His research paper "Evolution of Convolution Neural Networks using Genetic Algorithm" was published in IEEE WCCI 2020.

2. He has Cracked the HSBC Hackathon.

3. He was the head of Web development team in Inter IIT Sports Meet 2019.



Aadi Swadipto Mondal made noteworthy contributions in the field of neural networks which led to the publication of his paper titled "Evolution of Convolution Neural Networks using Genetic Algorithm" in IEEE WCCI 2020 (under IEEE CEC) which took place virtually in Glasgow, Scotland from 19-24th July 2020. He was also part of the Tech contingent from IIT Kharagpur for ATFC at Inter IIT Tech meet 2019. He has also cracked HSBC Hackathon. Aadi Swadipto Mondal and his team members created Android App using Artificial Intelligence for the elderly people which reminds them to take their medicines and works as a digital caregiver. He also served as Head of the Web development team in the Inter IIT Sports Meet 2019.



Aditya Singhanian

IM | VS | 2021

1. His research paper 'Multi-objective PSO based integrated production inventory routing planning for efficient perishable food logistics operations' got published in the renowned 'International Journal of Production Research'.

2. He and his teammate together researched in the field of efficient perishable food logistics operations at The Hong Kong Polytechnic University.

3. He was elected as the General Secretary Sports and Games, 'Technology Students' Gymkhana' for the academic year 2019-20.



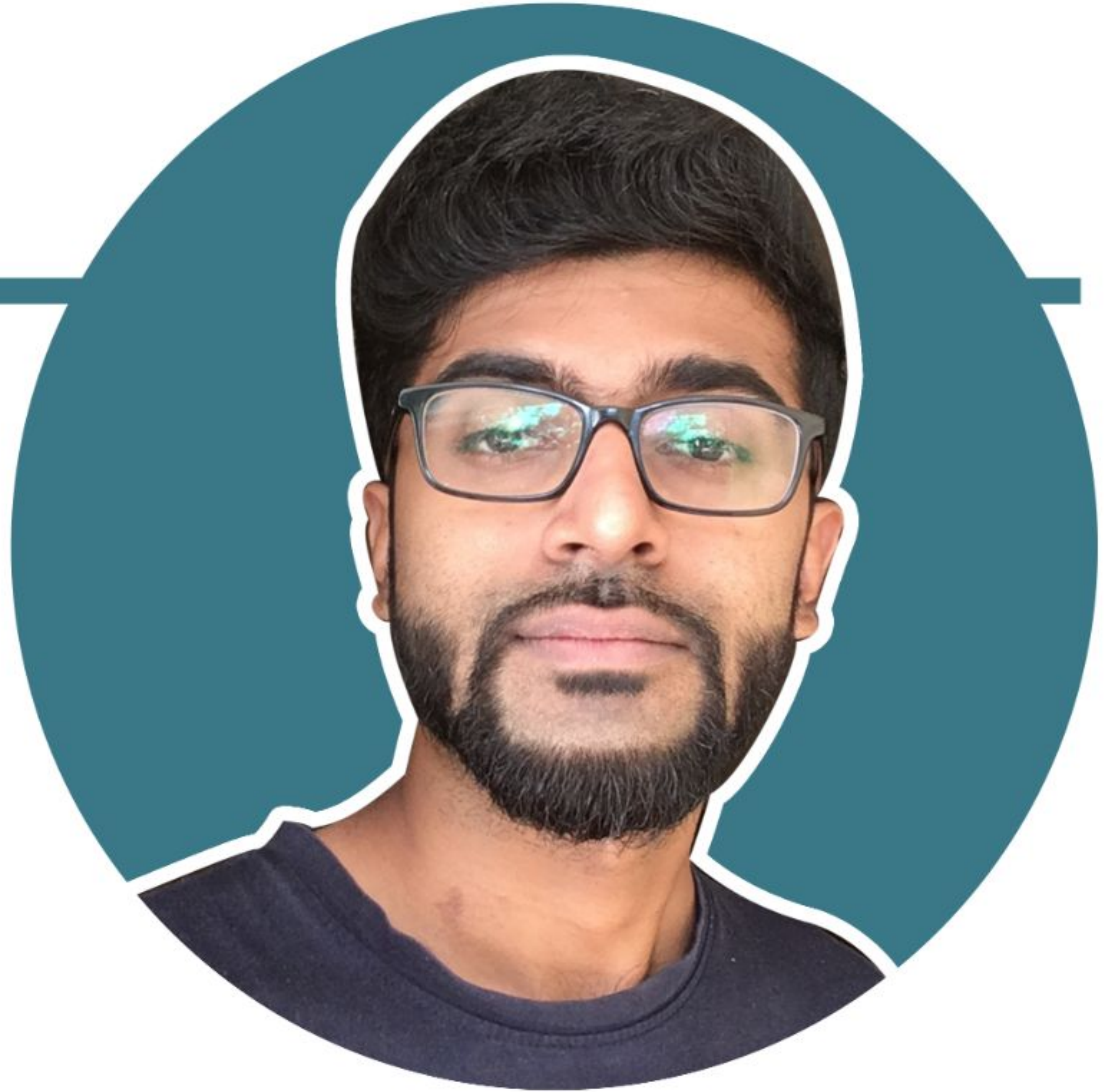
Aditya Singhanian published a research paper titled "Multi-objective PSO based integrated production inventory routing planning for efficient perishable food logistics operations", in the "International Journal of Production Research" of Taylor & Francis publication. His journal aims to disseminate research on decision aid in manufacturing, Operations Management and logistics. Aditya, along with the co-author, Amrit Goswami worked on this project at The Hong Kong Polytechnic University in the summer (2019) under the guidance of Prof. Felix T Chan and Prof. Manoj K Tiwari. Aditya started on his journey at the Technology Students' Gymkhana as the Secretary of Squash Subcommittee, under which he looked after all the squash related activities and participation in the campus. He, along with Mayank Manjeara, was elected as the General Secretary Sports and Games catering to all the requisites of the sporting fraternity at KGP. Aditya also served as the Technical Head, Business Club for the academic session 2019-20.

Aniruddha Saha

ME | LLR | 2021

1. He started working at the Indian Institute of Science as an IASc Summer Research Fellow and his work involved in developing a new insight in the field of polymeric coalescence.

2. He was able to put forth a new mathematical relation governing coalescence attested with experimental studies.



He started working at the Indian Institute of Science as an IASc Summer Research Fellow under Prof. Alope Kumar's direct guidance. His work involved in developing a new insight in the field of polymeric coalescence. It was a fantastic collaboration with IIT Kharagpur's microfluidics laboratory, and he was able to put forth a new mathematical relation governing coalescence attested with experimental studies. It was eventually recognised as an important work worthy of publication in Soft Matter. He was also mechanical team member at Automatic Ground Vehicle (AGV) group at IIT Kharagpur.



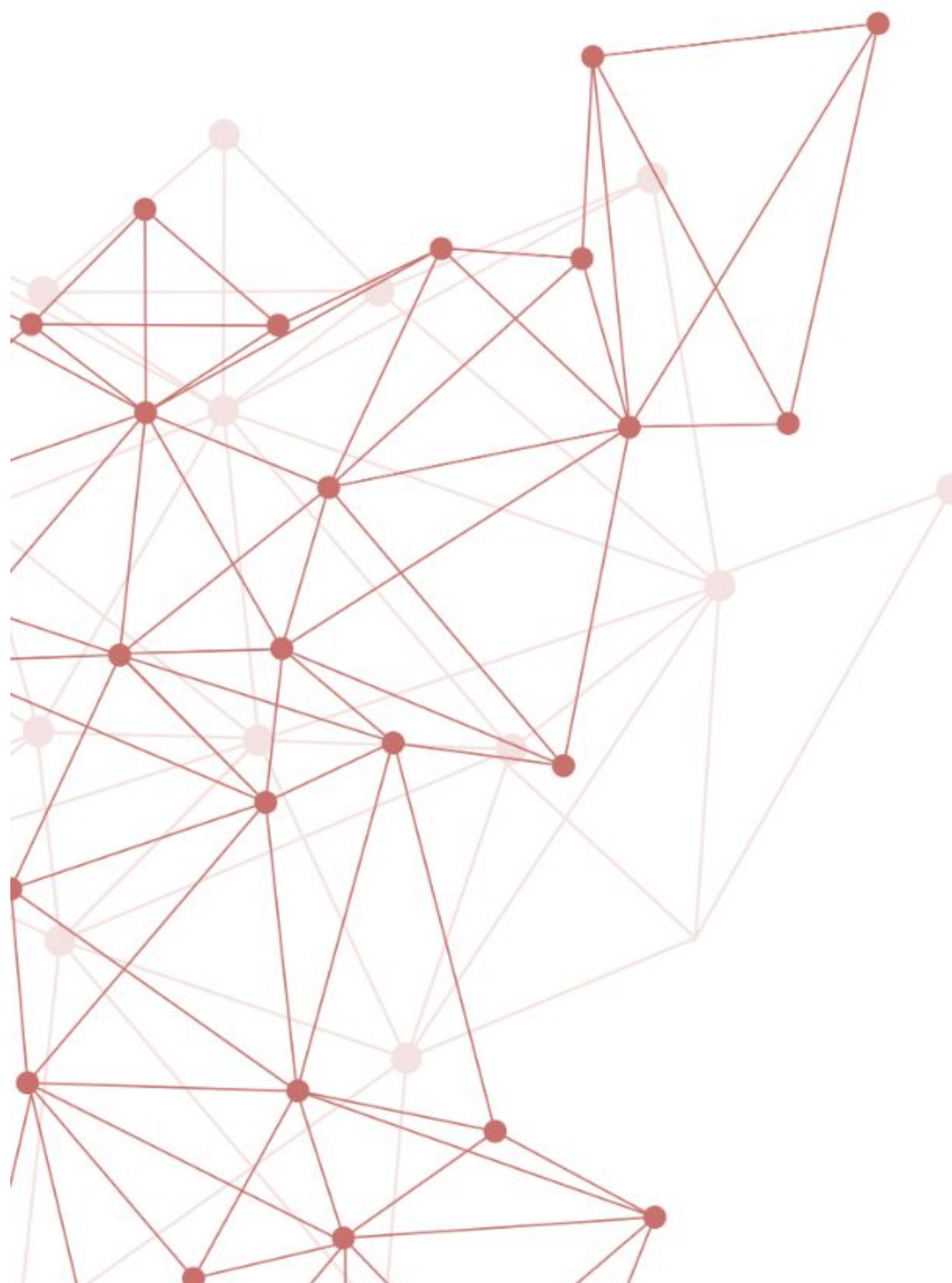
Anmol Basant

EX | LLR | 2018



1. Anmol Basant published a book named "Har Mausam Basant" which is a collection of Hindi Poems.

2. Professor Partha Pratim Chakrabarti got one copy of Anmol's book in the Central Library, IIT Kharagpur in the alumni section.

A decorative graphic in the bottom left corner consisting of a network of red dots connected by thin red lines, forming a complex, interconnected web-like structure.

Anmol Basant has published a book named "Har Mausam Basant" which is a collection of Hindi Poems. He has started writing seriously during his 4th year. Professor Partha Pratim Chakrabarti has been kind enough to get one copy of Anmol's book in the Central Library, IIT Kharagpur in the alumni section. It was really a great matter of pride for Anmol. He has also done a software development internship and completed his Masters' Thesis on Particle Swarm Optimization (Machine Learning). He has worked for Futures First as a Market Analyst for one year.

Archit Rungta

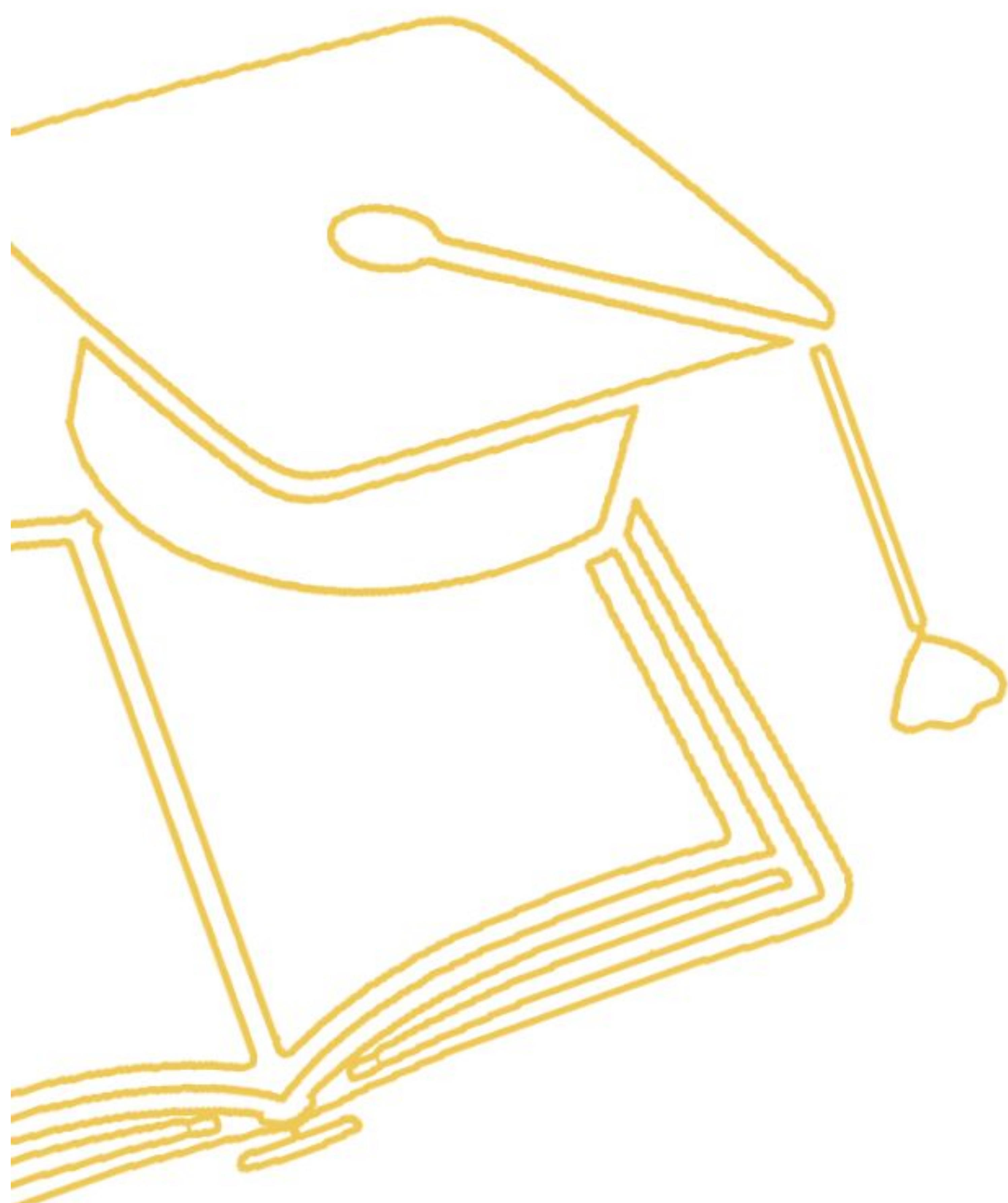
MA | LBS | 2023

1. He worked on a project in Google Summer of Code, one of the 14 Projects selected by OpenCV.

2. He was a part of a winning team at IMAV 2019 held at Madrid, Spain.



Archit Rungta participated in Google Summer of Code, the prestigious event organized by Google to develop Open source Contributing culture among college students and he got selected for the project. His project was on OpenCV, which is one of the most competitive organizations to do a Google Summer of Code project and due to its fame, it receives huge number of proposals. His work was on creating an interface between OpenCV and Julia that allows Julia to use the functionality created by OpenCV. Archit's project was one of the 14 projects which got selected by OpenCV organization. He was a part of a winning team at IMAV 2019 held at Madrid, Spain.



Arusarka Bose

EC | MS | 2023

1. Arusarka Bose worked on development of the Teleoperation System for a Humanoid Robot for Medical Applications as part of Avatar Xprize Competition.

2. He engineered an AWS based VPN server with OpenVPN for ROS Teleoperation, and Latency Measurement frameworks for ROS and ROS2.



Arusarka Bose worked on the development of the Teleoperation System for a Humanoid Robot for Medical Applications as part of the Avatar Xprize Competition. He also devised a HandPose estimation framework based on Aruco markers, for the Sophia humanoid robot SDK. He engineered an AWS based VPN server with OpenVPN for ROS Teleoperation and Latency Measurement frameworks for ROS and ROS2. Arusarka pioneered a WakeWord detection system DeepSpeech, a HeadPose estimation framework using a Docker based Flask server. He developed the ROS nodes for actuator control, hand pose and head pose mapping, audio transport, chest cam and Intel Realsense feed transport, and Unity VR feed transport for Sophia humanoid robot SDK.

Astikey Singh

EE | RP | 2020

1. His paper "In-Situ Extraction of Randomness from Computer Architecture through Hardware Performance Counters" was selected as best student paper at CARDIS 2019.

2. He was an intern at Societe Generale Global Solution Center



Astikey Singh's paper based on "In-Situ Extraction of Randomness from Computer Architecture through Hardware Performance Counters" was selected as the best student paper among all the accepted papers at CARDIS 2019. Since 1994, CARDIS is the primary international conference dedicated to smart card research and applications. Smart cards, or by extension, intelligent devices, are the basis for many secure systems and play a decisive role in ID management. He was also an intern at Societe Generale Global Solution Center. He designed a state of art image processing algorithm to compare incoming and outgoing documents for trade confirmation of around half a million Euros and achieved a record result output time of 2 minutes per copy for the comparison algorithm, an 80% improvement the previous algorithm used.



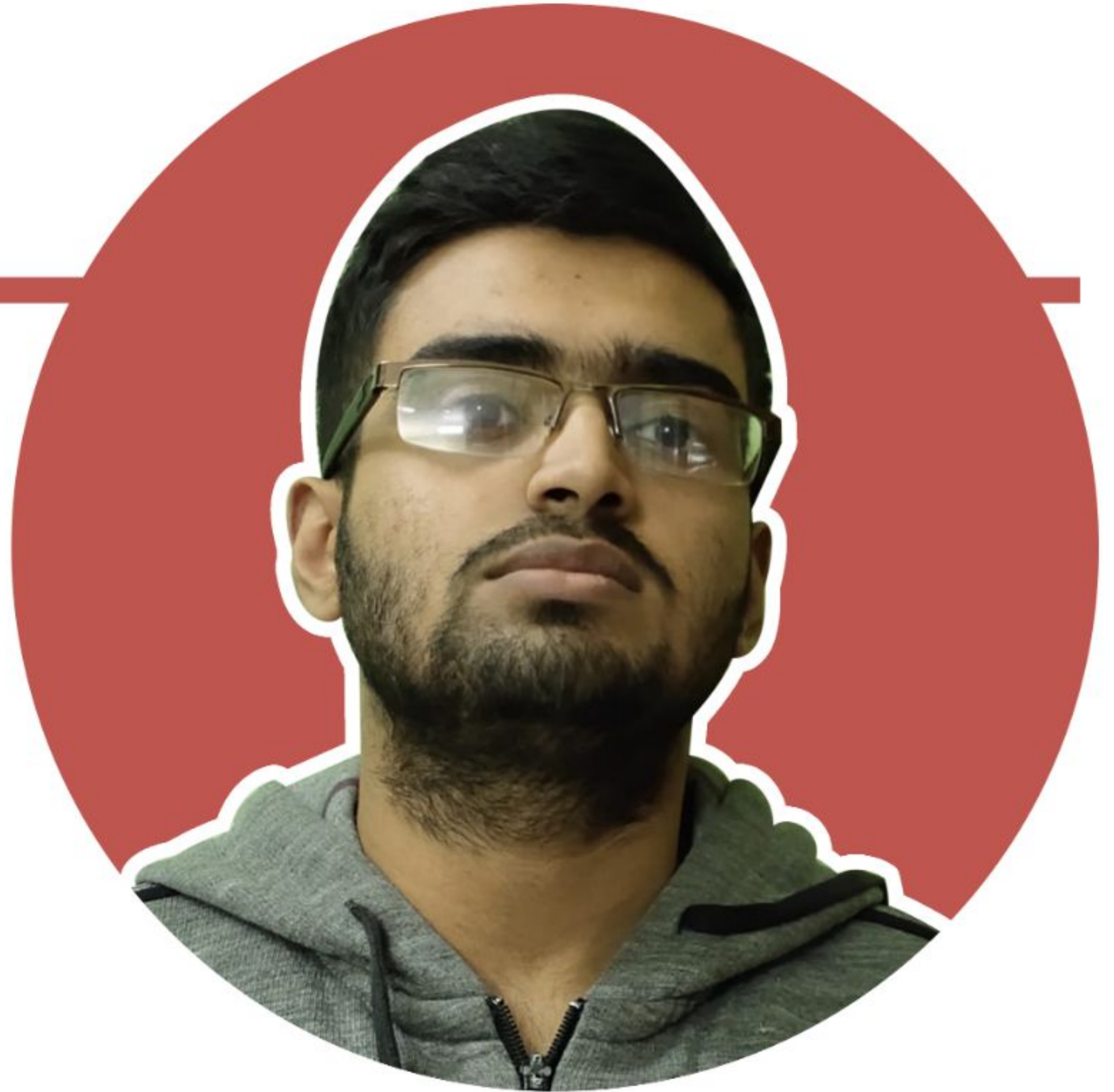
Ayush Kaushal

CS | MS | 2021

1. He was a recipient of the Mitacs Globalink Research Internship Award for Summer 2020.

2. He has two publications at EMNLP 2020 Workshop on Noisy User-generated Text.

3. He won 1st place in the Shared Task for his work on extracting COVID-Entities



Ayush was a recipient of the Mitacs Globalink Research Internship Award for Summer 2020, which funded his research internship at the University of British Columbia - Vancouver on Deep Learning for Code Repair and Bug Detection. The award consisted of (CAD) \$6000+ worth of scholarship, insurance, and travel funds. Since 2018 he is developing state of the art Deep Learning for NLP open source packages in the Julia language. Google Summer of Code 2019 funded his proposal to further these packages by 3000USD under the Julia Community's guidance. In the Journal of Open Source Software 2020, he published one of the packages developed for high-speed (4X faster) custom multilingual tokenization. He had two publications at EMNLP 2020 Workshop on Noisy User-generated Text. One of these provided the state of the art system to Extract COVID-19 Events from Twitter. The other is on tagging entities from scientific lab protocol documents. The work on extracting COVID-Entities won 1st place in the Shared Task.

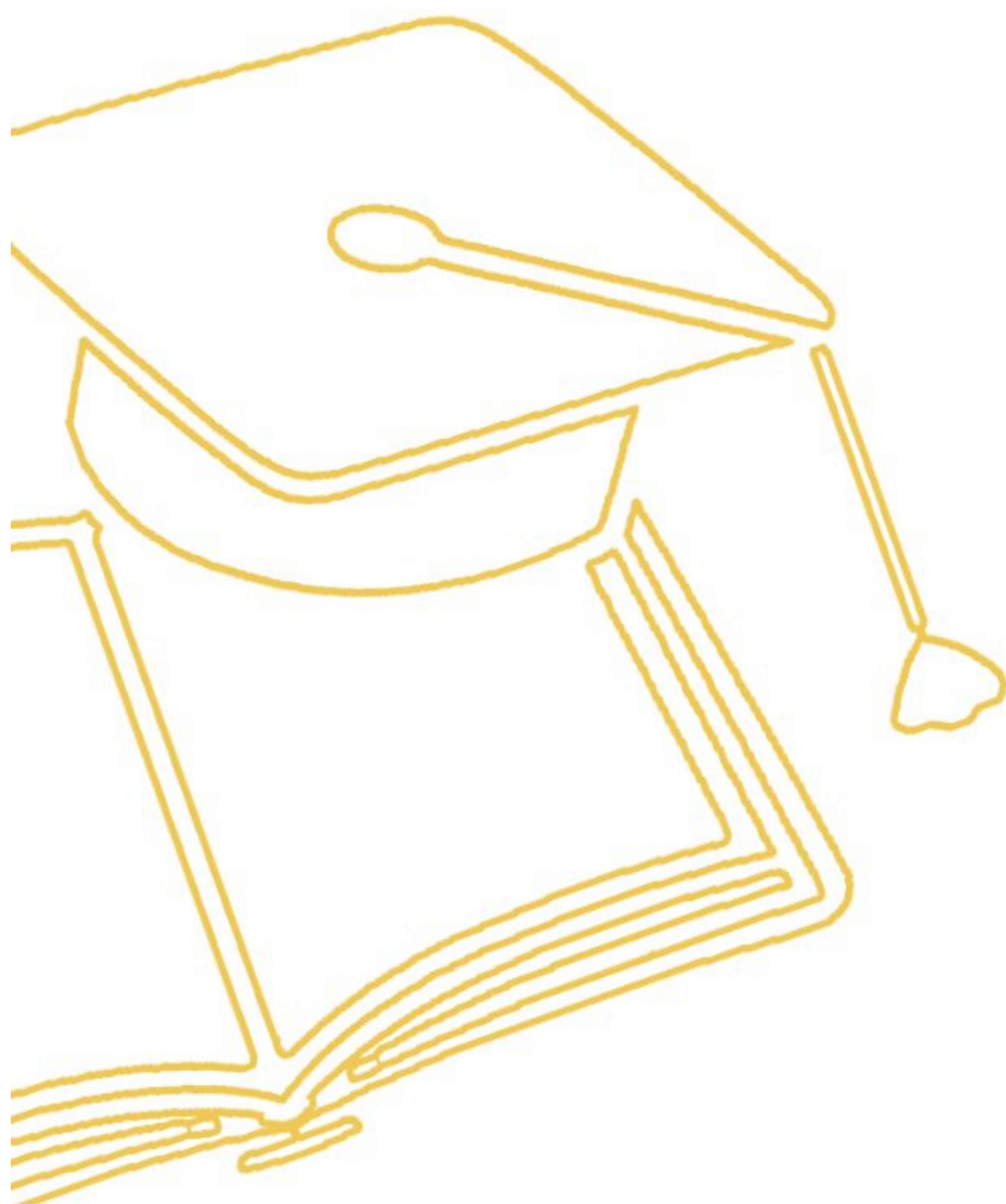
Azwar Abdulsalam

EC | RK | 2021



1. His journal/paper which is 'p-GaN based HEMTs are an emerging replacement for silicon-based MOSFETs and IGBTs' was published in the esteemed IEEE Electron Device Society.

Azwar published Journal or Conference Paper in the IEEE Electron Device Society. This paper concentrates on the p-GaN-based HEMTs that are an emerging replacement for silicon-based MOSFETs and IGBTs owing to their high break down voltage, high electron mobility, and thermal conductance. These devices have tremendous potential in the power conversion market within battery chargers, smartphones, computers, servers, automotive, lighting systems, and photovoltaics. Chip manufacturing giants like TSMC, Infineon, etc have already begun production of p-GaN-based HEMTs for power applications. In their work, Azwar and his team formulated a fully analytical model of the gate capacitance of the device, for the first time since the device's inception in 2007. Such a model will not only assist p-GaN researchers in fabricating the optimum device but is also essential for circuit implementation in IC design. Their work was accepted in the premier IEEE Transactions for Electron Device journal, which is one of the flagship journals of the IEEE Electron device society.



C Siva Vignesh Krishnan

ME | PH | 2021

1. He Developed a heuristic algorithm for Multi objective Optimization at Soft Computing Laboratory, IIT Kharagpur.

2. He also Co-authored a Paper that Published in the Journal 'Knowledge and Information Systems'.

3. He also Co-authored another Research Paper that has been accepted in 10th Conference of New technology for Computer and Robot Assisted Surgery, Barcelona.



C Siva Vignesh Krishnan, along with a research scholar, developed a heuristic algorithm for multi-objective optimization at Soft Computing Laboratory, Mechanical Engineering Department, IIT Kharagpur. He co-authored a paper based on the work that was published in the Journal "Knowledge and Information Systems" by Springer. He authored a paper along with few others from Patel Hall of Residence based on a book arranging robot developed for inter hall hardware modelling tech GC. The paper was accepted and published in the 4th International Conference on Automation, Control and Robots, Rome. He co-authored another conference paper during his virtual foreign internship (at University College London during summer 2020) that was accepted in the 10th Conference on New Technologies for Computer and Robot Assisted Surgery, Barcelona.

Faraaz Rahman Mallick

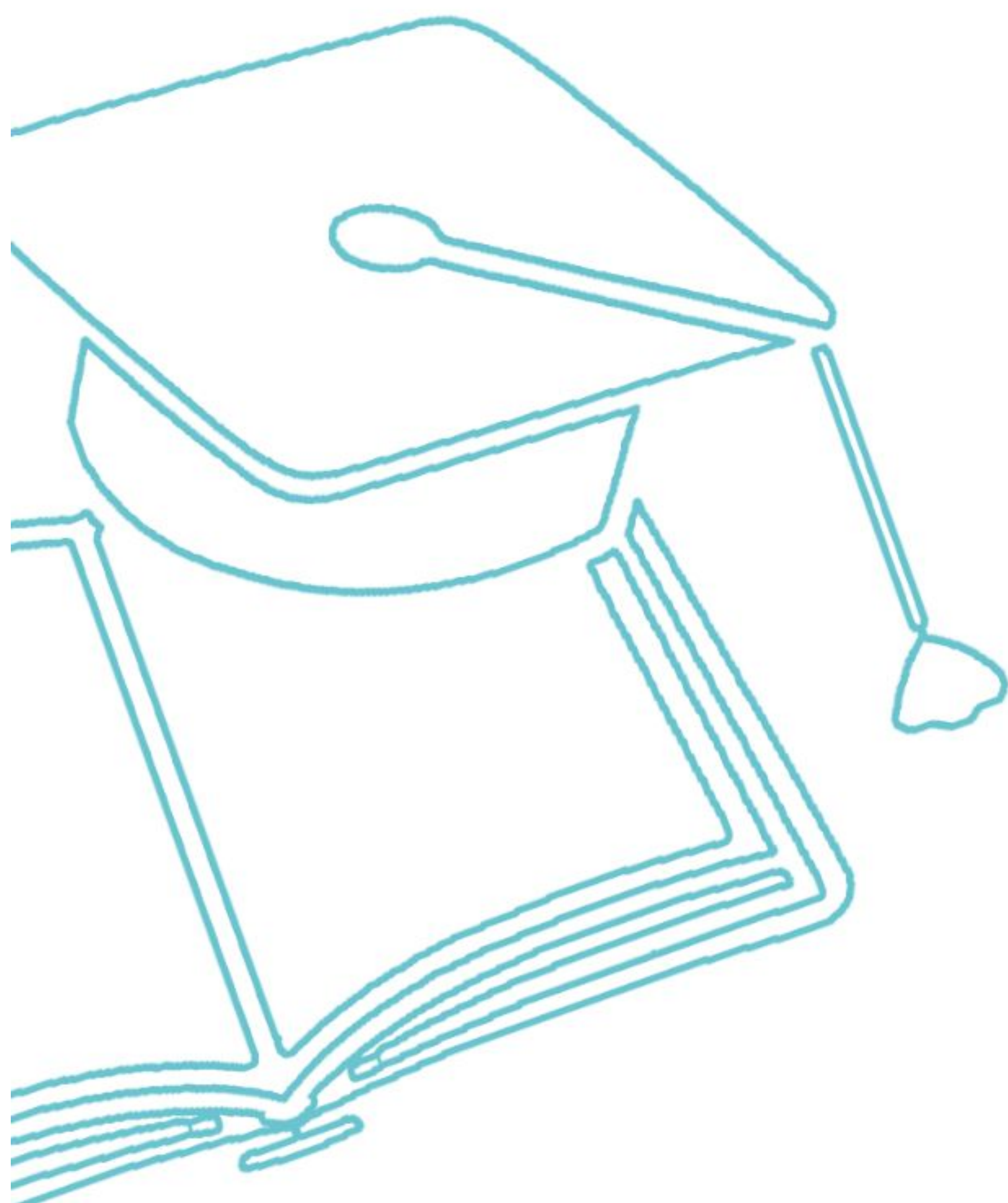
CS | RP | 2022

1. Faraaz was awarded the prestigious Future Research Talent (FRT) Award by the Australian National University, to pursue a research internship at the Research School of Computer Science for Summer, 2020.

2. He also received a fully-funded internship offer from the Max Planck Institute for Informatics to pursue a research project in the field of Theoretical Computer Science, for Summer, 2020.



The Honda Y-E-S (Young Engineers and Scientists) Award program was started to foster future leaders of science and technology fields in 2006, as a part of the Honda Foundation's 30th-anniversary project. The programme was gradually expanded to several countries, including Vietnam, Cambodia and India. The program hopes to promote the dissemination of ecotechnology among budding researchers and at the same time, to strengthen the interaction between Japanese youths and young people to promote scientific exchange. This year, only 14 students from the top 6 IITs were granted the scholarship. Faraaz was awarded the prestigious Future Research Talent (FRT) Award by the Australian National University, to pursue a research internship at the Research School of Computer Science for Summer, 2020. He also received a fully-funded internship offer from the Max Planck Institute for Informatics to pursue a research project in the field of Theoretical Computer Science, for Summer, 2020.



Gyan Prakash Konhar

NA | RP | 2022



1. He Represented India as part of CYL-National Team.
2. He has been shortlisted by the Confederation of Young Leaders (CYL).

Gyan Prakash Konhar was chosen as a part of the CYL-National Team to represent India on various global issues and provide solutions to the United Nations' Secretary-General sir, António Guterres, as a part of the UN75 initiative, in addition he was also featured in the promotional video of UN75. It is a once-a-millennium opportunity for youths to take part as a global leader and represent the nation. He was shortlisted by the Confederation of Young Leaders (CYL) out of 900+ applications for being a team member. He led the National Team of India in conversations and events to contribute effectively to #UN75 initiatives that was held in occasion of completion 75 successful years of the United Nations.

Harshvardhan Singh

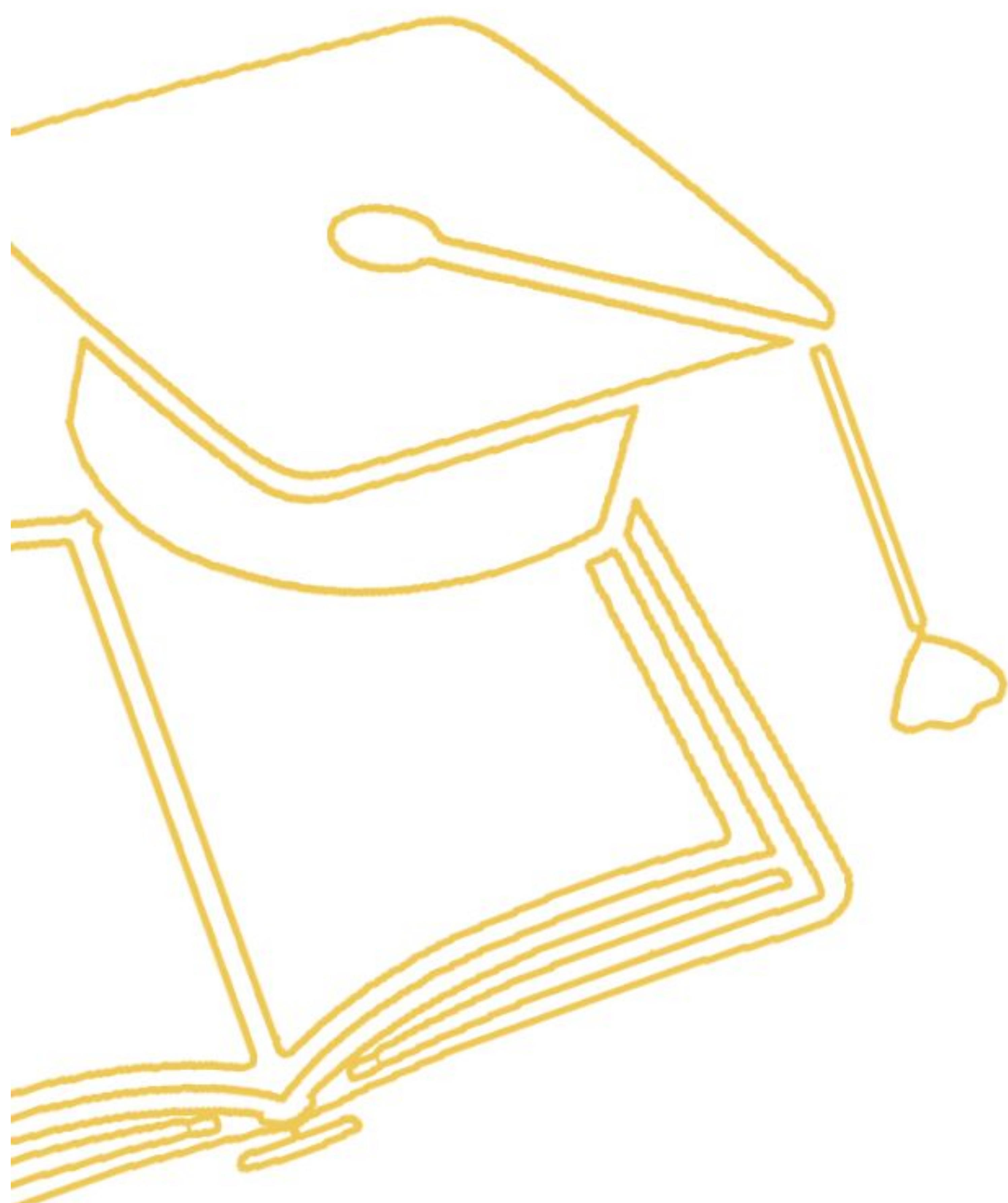
MA | RK | 2023

1. He presented the conference paper titled - "Region proposal and object detection using HoG-based CNN feature map" at the "International Conference on Data Analytics for Business and Industry".

2. He successfully cracked Harvard Puzzle Challenge called "CS50X Puzzle Day 2020 competition" organized by Harvard University in 2020.



Harshvardhan Singh was very much interested in Data Science and Analytics and presented the conference paper titled - "Region proposal and object detection using HoG-based CNN feature map" at the "International Conference on Data Analytics for Business and Industry" under the guidance of his professor and guide. This conference was hosted by Bahrain IEEE section, University of Bahrain on 26-27 October 2020 in online mode. He was second author as well as presenter for this conference paper. He was also the member of the Product Design Team of Radhakrishnan Hall of Residence and their team stood first bagging Gold medal at Open IIT Product Design Competition in 2019. He stood 3rd in Maths Olympiad organised by Kshitij, IIT Kharagpur. He successfully cracked Harvard Puzzle Challenge called "CS50X Puzzle Day 2020 competition" organized by Harvard University in 2020. Apart from this, he qualified KVPY, NTSE, INMO, INAO and other mathematics olympiads. His vigorous interest and passion in mathematics led him to get his department changed from Chemical Engineering to Mathematics.



Hima Swetha N

ECE | SNIG | 2020

1. She is the recipient of Dr. Bidhan Chandra Roy Memorial Gold Medal.

2. She is also the recipient of Kirttan B. Behara Endowment Award.

3. She also received the award of Bhandarkar Cup and Institute Blue.



Hima Swetha N received Dr. Bidhan Chandra Roy Memorial Gold medal for being the best all-rounder among all outgoing B.Tech(H) & B.Arch(H) students of 2020. She is also a recipient of Kirttan B. Behara Endowment Award(2017-18 & 2019-20), Suhasini Devi Memorial Prize (2019-20) & Prof.B.N.Avasthi Memorial Award for Sports (2018-19 & 2019-20). She was awarded Bhandarkar Cup and Institute Blue for exceptional performance in sports which includes 14 Inter IIT medals, Inter IIT Meet record in 4*400M relay, bronze medal in 69th West Bengal State Athletics Championship and numerous Inter Hall medals. She also led the Women's Athletics team as captain, which bagged Silver in the Inter IIT Sports Meet 2019.

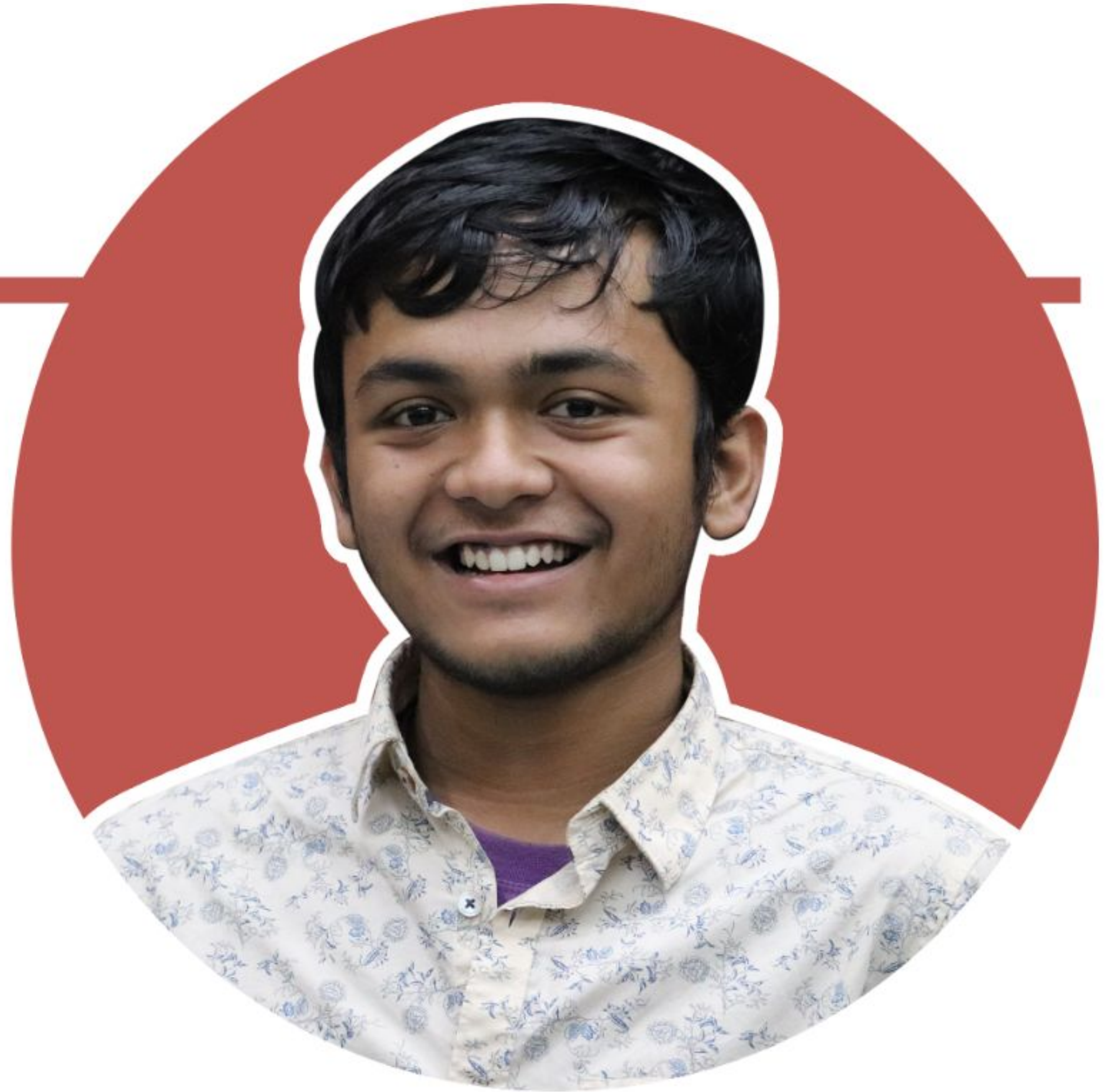


Iman Burman

EC | RK | 2021

1. He was the Protagonist in the short film 'Offside' which was selected in the Non-Competitive Short Film Category at 25th Kolkata International Film Festival, 2019.

2. The movie also won an award in the Tagore International Film Festival in the LGBTQ category.



Iman acted as the protagonist in a short film for BRH Hall of Residence named 'Offside', which was selected in the Non-Competitive Short Film Category at 25th Kolkata International Film Festival, 2019. The movie won silver in General Championship, IIT Kharagpur, 2018-19 and also won an award in Tagore International Film Festival in the LGBTQ category. He is currently the governor of Bengali Technology Dramatics Society, Druheen, and he also participated in several events in dramatics for both his Hall and Society.

Krishnam Kapoor

EC | LBS | 2021

1. His paper titled "Fault Detection and Accident Prevention by applying AI based Vibration Analysis" was accepted at the International Conference On Condition Monitoring (ICCM) 2021, organized by Tata Steel.

2. The paper demonstrates the effectiveness of using AI to learn the normal vibrational behavior of a railway line and focusses on accident prevention for railways.



Krishnam Kapoor's paper demonstrates the effectiveness of using AI to learn the normal vibrational behavior of a railway line, thereby enabling automatic pre-emptive fault detection in case of any regime change in the frequency spectrum. This paper is inspired by the famous event when the great Civil Engineer, late Mokshagundam Visvesvaraya, ingeniously predicted a crack in a railway line based on his perception of vibration change while lying inside the running train. Krishnam Kapoor, in his paper, explained how monitoring the vibration of the wheel or the compartments of a train may predict the events leading to failures and may avert many accidents in the world's railways. Thus, the paper opens up new vistas of research opportunities in preventive maintenance, fault detection, and accident prevention in railways.

Madhuri Endluri

CH | SNIG | 2023



- 1. She won 3 medals in athletics in the prestigious 54th Inter IIT Sports Meet.**
- 2. She won 2 medals in Sangram Sports Fest at IIT Roorkee and 5 Inter hall medals at IIT KGP.**

Madhuri participated in the prestigious 54th Inter IIT Sports Meet and represented IIT Kharagpur in Athletics during her second year. She bagged total 3 medals in athletics. She won gold in 4 X 400 metres run and broke the previous records setting new record. She won silver in 4X100 metres relay run and got bronze in High jump. She had also participated in 69th West Bengal State Athletics Meet and won bronze medal in 4X400 metres relay. Due to her immense contribution to cultivate the athletics culture among fellow girls, she was selected as Institute Sports secretary for the year 2019-20 (officiating). She was honoured with the Krittan.B.Behera best all-rounder of the Institute award for the year 2019-2020. She also won two medals in Sangram Sports Fest at IIT Roorkee and 5 Inter hall medals during her first year. She is truly the great inspiration for Girls to endeavour and grab the Athletics field.



Mann Rakesh Goel

CH | RK | 2022

1. He filed a patent in the Indian and the US patent offices for his developments on wound care devices.

2. He was the finalist in the reputed competition, AbinBev Maverick Code hackathon and Realme PaySa UPI Hackathon.

3. His team won a Gold in the 8th Inter-IIT-Tech meet held at IIT Roorkee.

4. He has won the 3M's Young Innovators Award, 2020 and also has been featured in the Prospect 100 Under 21 list, 2020.



Maan Rakesh Goel worked in the area of patent filing. He has filed a patent in the both, Indian and UJS patent offices for a wound care device. The innovation was carried out under the guidance of the professors from The Cooper Union University, USA. He was the part of the contingent of IIT Kharagpur for the 8th Inter IIT Tech meet held at IIT Roorkee, the team won gold and ended up with KGP securing an overall 1st Runner- Up. Also, he completed internships at Grant Thornton US and Edelweiss Financial Services. He had been the winner in the reputed competitions like AbhinBev Maverick Code Hackathon, Realme PaySa UPI Hackathon, etc. He won the 3M's Young Innovators Award 2020 and also had been featured in the Prospect 100 Under 21 list 2020, which mentioned about the 100 Tech Innovators globally under the age of 21, adjudged by Apple co-founder, Steve Wozniak.

Manthan Patel

ME | MMM | 2021

1. He is a recipient of the the O P Jindal Engineering and Management Scholarship.

2. He was awarded the DAAD-WISE (Working Internship in Science and Engineering).



Manthan Patel is a recipient of the O P Jindal Engineering and Management Scholarship. This Scholarship is aimed at promoting academic and leadership excellence and is awarded to meritorious students who emulate the vision and values of Shri O. P. Jindal and have the potential to become leaders in entrepreneurial excellence and innovation. Every year, 100 students from 40 premier engineering and management institutions are awarded. Also, He is the department topper among more than 170 students at the Department of Mechanical Engineering. He has been awarded the DAAD-WISE (Working Internship in Science and Engineering). The DAAD-WISE is awarded to pursue a research internship at a German Research Institute. He interned at the Max Planck Institute for Intelligent Systems, Tuebingen, Germany.



Moinak Ghosh

EE | RP | 2023

1. Moinak won the National Champions title and proposed an autonomous drone-based technical solution to solve the rehabilitation crisis in coastal Odisha after annual cyclones.

2. He was awarded the International runner-up prize at the Hacking Menopause Hackathon organised by Hackster.io and AARP Innovation Labs for 'Menoplay'.



Moinak along with 2 others won the National Champions title and proposed an autonomous drone-based technical solution to solve the rehabilitation crisis in coastal Odisha after annual cyclones. He led the Electric Vehicle team at Teamkart to an overall fifth position internationally for their first EV design at the FSEV Concept Challenge 2020 organized by Formula Bharat. They won the Recognition of Fresher Team Effort in Engineering Design. His Teamkart team secured 10th place at Formula Bharat 2020. He also led the team that secured 2nd place in the Business Plan Presentation event and his team secured the 6th position in Engineering Design. He was awarded the International runner-up prize at the Hacking Menopause Hackathon organized by Hackster.io and AARP Innovation Labs for 'Menoplay', a revolutionary wearable device that combines IoT, AI and analytics to treat Menopause. He is an embedded team leader of Kharagpur Robosoccer Students Group, the only Indian team to qualify for the International Robosoccer contest Robocup SSL 2021.

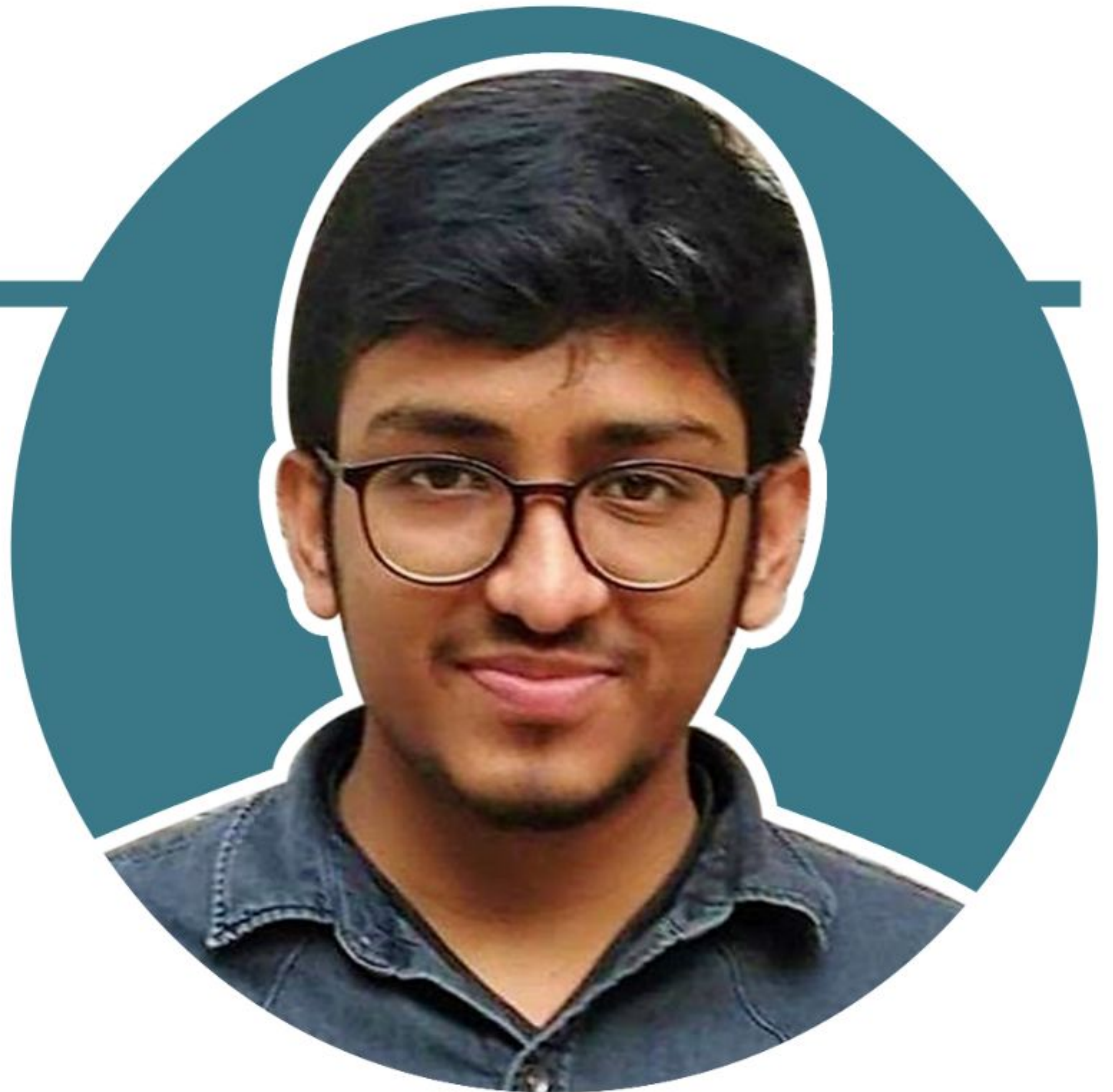
Nagesh Patle

ECE | AZ | 2021

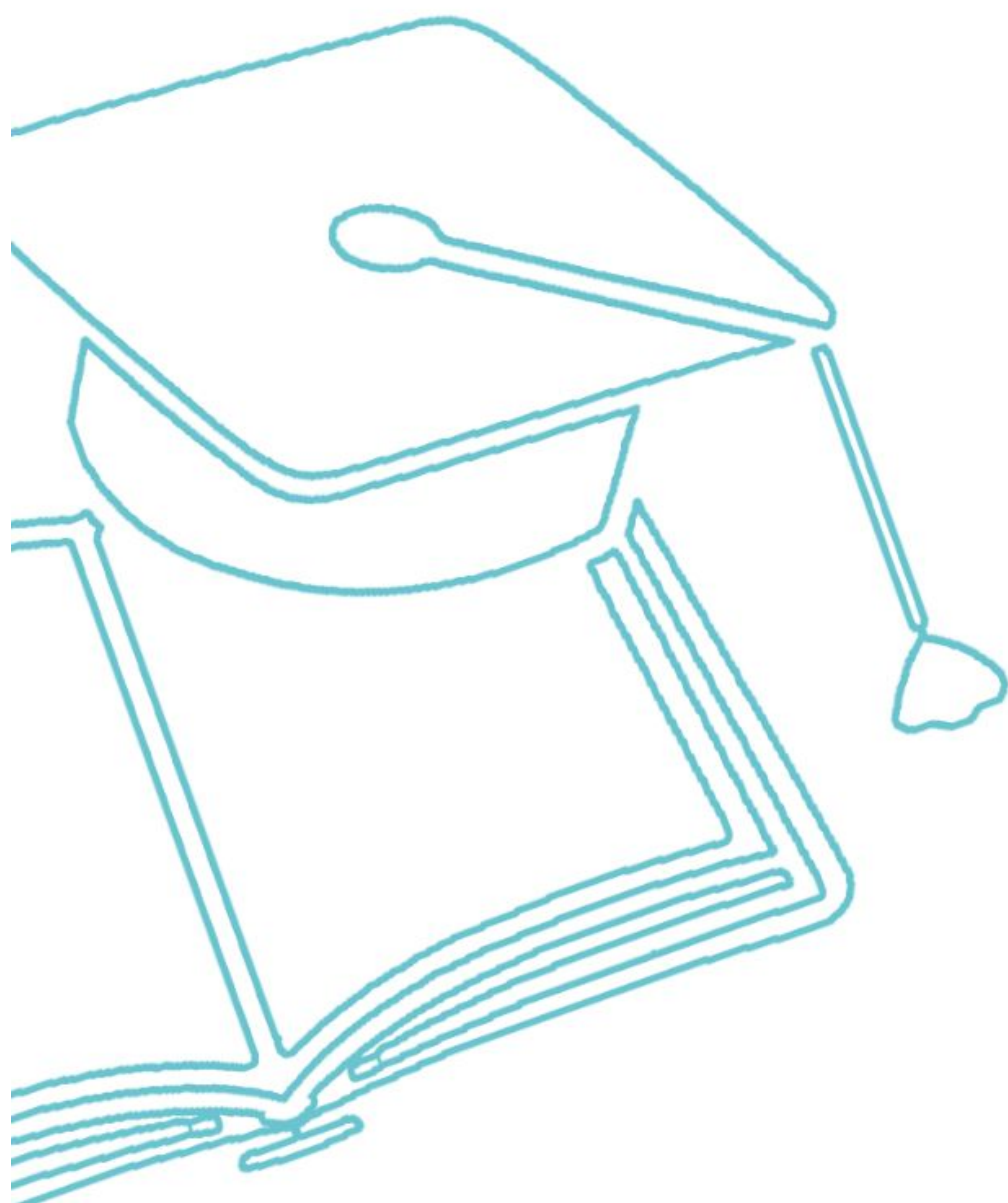
1. He co-authored two research papers titled "Time-Domain Modeling and Analysis of Switched-Capacitor Converters" and "Constrained Minimization of Switched Capacitor Converter Equivalent Resistance by Adjusting Transistor Sizes and Duty Cycles".

2. He was part of the team which developed an indigenous E-Ricksaw "Deshla".

3. He won a Gold medal in the quiz competition of Industry Acadamia Conclave.



Nagesh Patle has co-authored two papers, one for the journal "IEEE Transactions on Power Electronics (TPEL)", and the other for the conference "IEEE International Symposium on Circuits and Systems (ISCAS)". He has been a part of the ASPIRE lab at the department of E&ECE and worked with Prof. Bibhudatta Sahoo, to come up with a novel method to analyze any complex Switched-Capacitor Converter Network given any periodic input with about 2500 times faster than existing methods. He has been one of the designated peer-reviewers and provided critical reviews for a paper in the IEEE Open Journal of Circuits and Systems (OJCAS). He has made his contribution to the indigenous E-Rickshaw "Deshla ", which has ben featured in the national media. Nagesh has reached the National Finals and eventually won Gold in the Quiz competition of the Industry Academia Conclave (IAC) event held at the India International Science Festival (IISF) 2020, inaugurated by the Prime Minister and hosted by CSIR.



Neel Manish Karia

CS | MMM | 2021

1. His paper titled "Compilation Complexity of Multi-Winner Voting Rules" with co-author Dr. Jérôme Lang was accepted at AAI 2021.

2. He is a recipient of the Aditya Birla Scholarship (2017-2021) which is awarded to 15 students from the top technical institutes of the country on the basis of academic excellence and leadership potential.



Neel Manish Karia's achievement is in the field of Publication of Journal or Conference Paper, organized by the Association for the Advancement of Artificial Intelligence (AAAI 2021), Aditya Birla Group, International Olympiad on Astronomy and Astrophysics. His paper titled "Compilation Complexity of Multi-Winner Voting Rules (Student Abstract)" with Dr. Jérôme Lang has been accepted at AAI 2021. They have submitted the full version of this paper at AAMAS 2021. In this paper, they have worked on finding the bounds on compilation complexity of multi-winner voting rules such as SNTV, k Borda, Bloc, Chamberlin-Courant, Approval Voting, PAV, STV, Θ -Winning Sets, and Sequential Plurality. Also, he has been the recipient of the Aditya Birla Scholarship (2017-2021) which is awarded to 15 students from the top technical institutes of the country on the basis of academic excellence and leadership potential. He represented India at the International Olympiad on Astronomy and Astrophysics, 2017 held in Phuket, Thailand, and won a silver medal.

Omkar Roy

CH | BRH | 2020

1. He is one of the authors of the Research Paper "Tuning of graphene oxide intercalation in magnesium aluminium layered double hydroxide and their immobilization in polyacrylonitrile beads by single step mussel inspired phase inversion: A super adsorbent for lead" which is published in the Chemical Engineering Journal.

2. He was involved in evaluating Crude Pumps' Performance (DTA-RTF).



Omkar Roy contributed as a joint First Author (along with Dr. Animesh Jana) for a publication based on the Bachelor's Thesis Project in the Chemical Engineering Journal (Elsevier Publishing) with an Impact Factor of 10.65. His work focussed on synthesis characterization and application of Layered Double Hydroxide based adsorbent with very high capacity. He was also the finalist in the HPCL New Generation Ideation Contest 2020 in the undergraduate category. Omkar was a GET Summer Intern at Reliance Industries Limited, where he was involved in evaluating Crude Pumps' Performance (DTA-RTF) and received a pre-placement offer from there.



Palak Harwani

EC | SNIG | 2021



1. She is a recipient of the Women Emerging in Finance 2020 award.

2. She was the Head of the Controls and Embedded team of Aerial Robotics lab at IIT Kharagpur.

Palak Harwani has received the Women Emerging in Finance 2020 award. It is an initiative by Goldman Sachs to identify women from leading engineering and business schools across India to mentor them and provide a perspective on what it takes to have a successful career in the financial services sector. She has also submitted a journal paper (Order and Information in the Phases of a Torque-driven Collective System) based on her internship at the Max Planck Institute of Intelligent Systems, Germany (May-July 2019). Her project has involved the study of dynamic and programmable self-assembly of hundreds of magnetic micro-robots as well as included the development of control strategy for shape programmable self-assembly of this multi-robot system. Also, she has been the head of the Controls and Embedded team of Aerial Robotics Lab at IIT Kharagpur.

Pankaj Kulria

AG | RP | 2021

1. Pankaj was awarded the prestigious Kirtan B. Behra Endowment Award.

2. He has completed training in the Research and Development center of SSP and worked on Spray drying of food products.

3. He was awarded the Arjun Das Datta Memorial MCM Endowment Scholarship for Three years.



Pankaj was awarded Kirttan B. Behera Endowment Award for the academic year 2018-19 for demonstrating best all-round performance in Academics, Cultural activities, Art, Sports and Games, Student activities and leadership. He was also awarded Arjun Das Datta Memorial MCM Endowment Scholarship for three years for "Extraordinary Academic Performance". He also completed training at the Research and Development center of SSP and worked on Spray drying of food products.



Piyush Kedia

MT | RP | 2021



1. Piyush Kedia is the Winner of the season opener episode for Season 8 of Dadagiri Unlimited, a Bengali quiz show on Zee Bangla TV.

2. Scored 109 points, becoming the only adult in the season to reach three digits.

Piyush Kedia Participated in the Season 8 of Dadagiri Unlimited, a Bengali the quiz show on Zee Bangla TV channel, hosted by BCCI Chairman and ex-India captain Sourav Ganguly. He emerged as the Winner of the season opener episode because of his heavy score of 109 points and set record of becoming the only adult in the season to reach a three digit score. Furthermore, he also finished 2nd in the season finale in overall category representing Hooghly district.

Potluri Hemanth Kumar

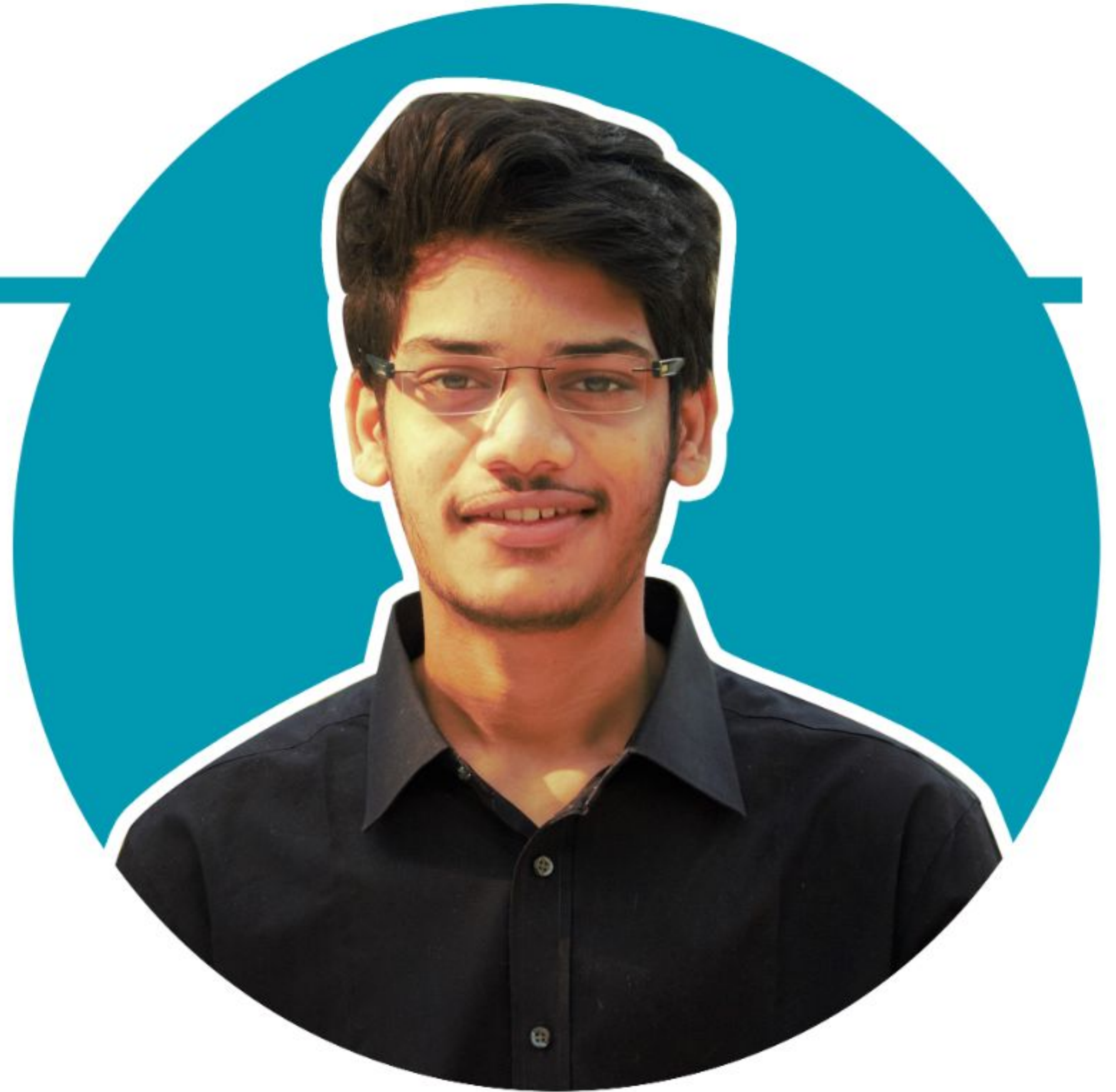
AG,EP | AZ | 2020

1. He is the Co-founder of Technology Culinary Arts Society, IIT KGP 2019-20.

2. He is also the Co-founder of Chess Club, IIT KGP 2017-18.

3. He was the Captain of the chess team (the year 2017), and his team won the first-ever Gold for IIT Kharagpur in the history of Chess.

4. He has won a Gold medal in Inter IIT chess representing IIT KGP in the Sports meet 2019.



Potluri Hemanth Kumar was the co-founder of Technology Culinary Arts Society, which started functioning in the academic year 2019-2020. Previously, he co-founded the Chess Club, IIT Kharagpur in the academic year 2017-18. He won second gold medal in the Inter IIT chess, representing IIT KGP in Sports meet 2019. He had been a part of the inter IIT team and brought laurels throughout his stay at Kharagpur. In 2016, he was the captain of the chess team and won first ever team Silver for Kharagpur in the history of chess. Also in 2017, he was the captain of the chess team and won first ever team Gold for Kharagpur in the history of chess. In 2018, his team secured Silver for IIT Kharagpur.



Pratyaya Mandal

EE | MS | 2023

1. Pratyaya Mandal has won a gold medal in the 69th West Bengal state athletics meet 2019 in the 4*100 mts relay race.

2. He has also won a gold medal in the Inter IIT sports meet 2019 with a record timing of 43.3 seconds in the 4*100 mts relay race.



Pratyaya bagged a gold medal in the 69th West Bengal State Athletics meet 2019 in the event of 4*100 m relay race and also in the same event, got a gold medal in the Inter IIT sports meet 2019 with a record timing of 43.3 seconds. He also participated in the Inter Hall Athletics meet and got medal in 100 m, 4*100 m and 4*400 m race as well as his team of LBS Hall of Residence achieved the Junior Athletics Championship in the year 2019.



Rajat Kumar Jenamani

CS | AZ | 2021

1. Rajat Kumar was the only applicant from IIT Kharagpur and was among the 100 applicants worldwide selected for The Cornell, Maryland, Max Planck Pre-doctoral Research School 2020.

2. He was one of the three students selected across the institute for the Tower Research Capital India Meritorious Scholarship 2020.



Rajat was the only applicant from IIT Kharagpur and among 100 applicants worldwide selected for The Cornell, Maryland, Max Planck Pre-doctoral Research School 2020. Attendees were exposed to state-of-the-art research in computer science, got the opportunity to interact one-on-one with internationally leading scientists from three of the foremost academic institutions in research and higher learning in the US and in Europe, and networked with like-minded students. He was one of the 3 students selected across the institute for the Tower Research Capital India Meritorious Scholarship 2020. The scholarship was an amount of ₹2.2 Lakh paid as reimbursement of tuition fees and bookgrant. Also, he was the only one among 5 students from the institute, awarded the GKF International Internship Scholarship 2020 (a maximum grant of \$5000) for his summer internship at Carnegie Mellon University. Carnegie Mellon University is the top-ranked university worldwide in the field of Computer Science. He had been awarded a certificate of 'Student Par Excellence' by the CSE department for exemplary academic performance.



Rajat Maheshwari

CH,FP | RK | 2021



1. Rajat Maheshwari was presented the Shastri Research Student Fellowship (SRSF).
2. He has completed research in Finance at the Telfer School of Management.



Rajat Maheshwari was awarded the prestigious Shastri Research Student Fellowship (SRSF) by the Ministry of Human Resource and Development, Government of India. In Shastri Research Student Fellowship 15 students across India and Canada have been selected to pursue summer research internship at a Canadian Institution. This research programme provides opportunity for a transformative educational experience and gives exposure to international research practices. Furthermore, Rajat completed his summer research (2019) in the field of finance at Telfer School of Management, University of Ottawa.

Samruddhi Vidyadhar Pataskar

CY | SNIG | 2021

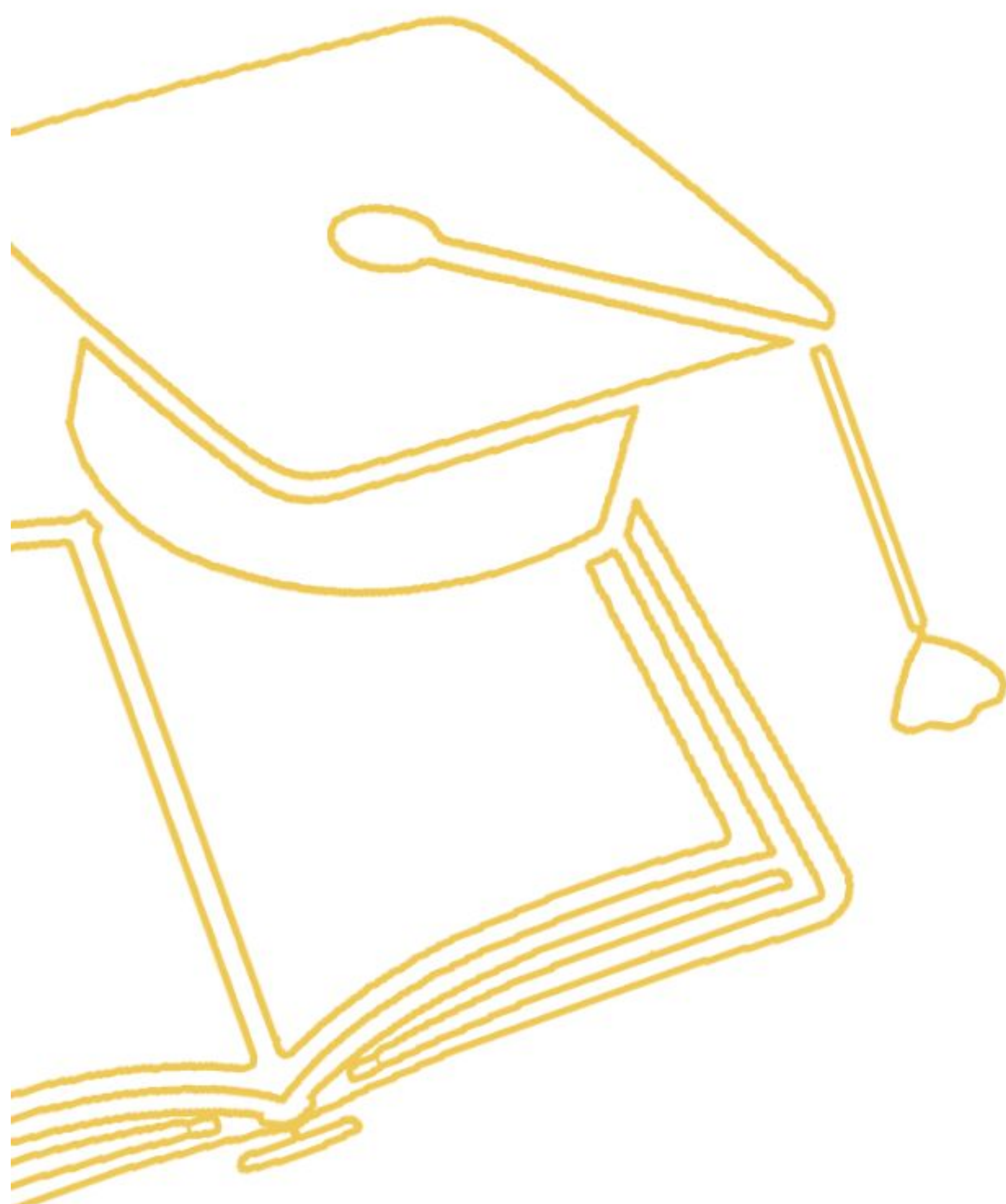
1. Samruddhi is a United Nations Gold Medalist for writing on education.

2. She filed patents in the India and the USA for an award-winning device published in the press.

3. She is a certified elocutionist from Trinity College, London, and founder of the Toastmasters Club of IIT Kharagpur.



Samruddhi Vidyadhar Pataskar was selected for the prestigious 'Youth Engagement for Leadership in Social Action' program organized by the US Embassy American center and LEAD India. She was among the top 100 candidates all over India chosen to work with the Public Affairs Section of the US Embassy for displaying exceptional leadership skills. She would be involved in a year-long project that is a milestone in social work about communities affected by the COVID-19 pandemic. She is a certified elocutionist from Trinity College, London, and filed patents in India and the USA for an award-winning device. Samruddhi is also the founder of the Toastmasters Club of IIT Kharagpur.



Saptarshi Sadhu

AR | JCB | 2021

1. Saptarshi Sadhu holds the world record for "Longest-Running Mechanical Spinning Top(Prototype)".

2. He broke the previous world record by a considerable difference of 12hrs 18min 52 sec.



He broke the World Record for the record titled, "Longest-Running Mechanical Spinning Top (Prototype)" of 27Hrs 9mins and 24sec and established a new record of 39Hrs 28mins 16sec. The previous record was jointly held by Fearless Toys and Breaking Toys, who established their record in 2018, in Israel. The attempt started at 06:43am on 19th December 2020 and ended on 20th December 2020 at his residence which was witnessed by 10 different appointed witnesses as well as by viewers on the live video stream of the event. All video evidence and witness statements had been sent to the Guinness World Records.



Saransh Gupta

QM | AZ | 2021

1. Saransh received the title of Intern of The Month from Mr. Ashwin Srivastava (CEO of Sapio Analytics) for building an AI-driven Decision Support System for the prediction of COVID-19 at the hyperlocal level.



Saransh led the team at Sapio Analytics PVT LTD to build an AI-driven Decision Support System for the prediction of COVID-19 at the hyperlocal level and a recommender engine based on the lockdown and migration conditions to minimize the virus spread and the revival of economic activities, which is currently being used by The State Government of Telangana, that directly impacts the lives of 35 million people of the State. He received the Letter of Appreciation from Mr. Hardik Somani, COO, Sapio Analytics, and the title of Intern of The Month from Mr. Ashwin Srivastava, the CEO of the Sapio Analytics and Forbes 30 Under 30 Asia, 2017.



Shivam Kumar Jha

CS | BRH | 2022

1. Shivam Kumar Jha was selected in GSoC in 2018 and 2019 as Student Developer under CCEXtractor.

2. He worked as Mentor for CCEXtractor in GSoC 2020.



Shivam Kumar Jha was selected in Google Summer of Code 2018 & Google Summer of Code 2019 as a student developer under CCEXtractor. Thereafter, he was a mentor for Google Summer of Code 2020 at the same organization. He has also mentored school students in the Google CodeIn program for the year 2018 and 2019, helping them to get into opensource. He also got the chance for the Software Engineer Internship at ClearTax and Wingify. He also served as Technology Coordinator at Technology Students Gymkhana, IIT Kharagpur. He was the former summer code mentor and organising team mentor at Girlsript Foundation. He is the senior developer and co-founder at CodeStash, IIT Kharagpur and the Coordinator at Codeclub, IIT Kharagpur. Also, he was the GCI mentor at Google CodeIn 2018.



Shivam Singh

IM | RP | 2022

1. Shivam Singh was nominated as Vice President at Technology Students' Gymkhana, IIT Kharagpur.

2. He broke 100m record to become the fastest IITian ever in the history of all IITs.

3. He won 3 Gold, 1 Silver and 1 Bronze in Inter IIT 2019 held at IIT Kharagpur.



He was awarded Kirttan B. Behera Best All-rounder Award for showcasing all-round performance in academics, sports and technological domains. He broke 100m record to become the fastest IITian ever in the history of all IITs. He won 3 Golds, 1 Silver and 1 Bronze in Inter the IIT 2019 held at IIT Kharagpur. He was also the part of the team that broke 4*100 metres relay Inter IIT record, Gold winning men's' Athletics team of IIT Kharagpur at Inter IIT 2019, 4*400m relay team that secured 2nd position at West Bengal State meet 2019. He is officiating Vice President at Technology Students' Gymkhana, IIT Kharagpur.



Shreyansh Vats

ME | AZ | 2021

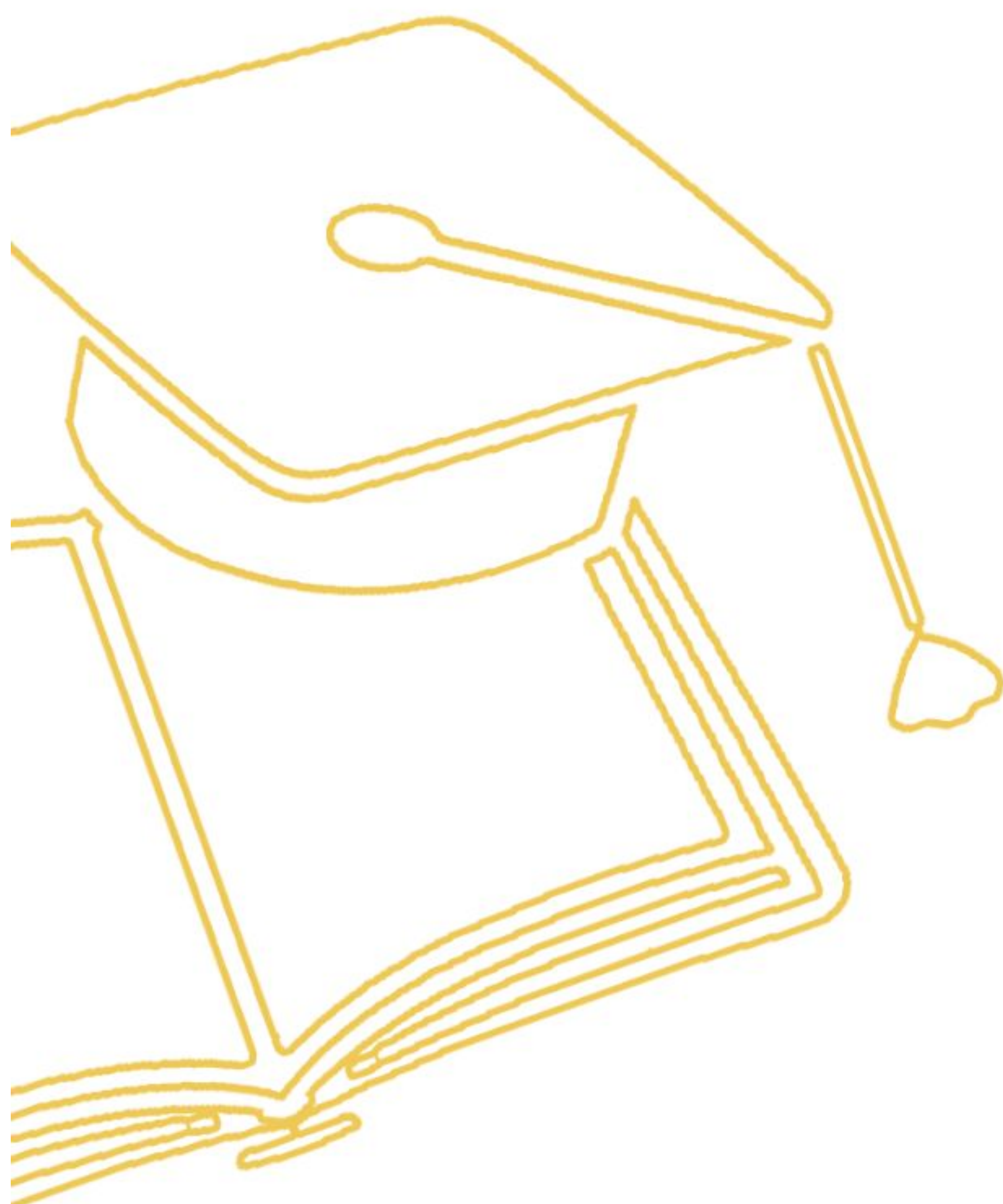
1. Shreyansh Vats was awarded the Best Innovation Prize for a business plan of a community serving app "Econesia".

2. He was one of the 400 delegates among 6000 applicants across 6 countries to get selected for the Harvard US-India Initiative, 2020.

3. He competed in the Credit Suisse Research Institute's Academy Challenge 2019 and secured a top 20 finish from over 170 papers.



Shreyansh Vats was among the few Indians, among 76 international delegates to be selected at the International Students' Conference 2020, an 8 day-conference centred around Industrial Revolution 4.0. He was awarded the Best Innovation Prize among 110 candidates for a business plan of a community serving app "Econesia" by leading professionals from Gojek and Blibli, the two most influential and indigenous technical enterprises located in Jakarta, Indonesia. He was also one of the 400 delegates, among 6000 applicants across 6 countries to get selected for Harvard US-India Initiative 2020, held at Taj Mahal Palace, Mumbai. The conference, which went on for nearly 2 days, focused on collating ideas about India's current economic growth, business accomplishments and what motivated the young generation for excelling in their respective fields. He competed in the Credit Suisse Research Institute's Academy Challenge 2019 and secured a top 20 finish from over 170 papers received from 30 countries, 6 Continents and 76 Universities.

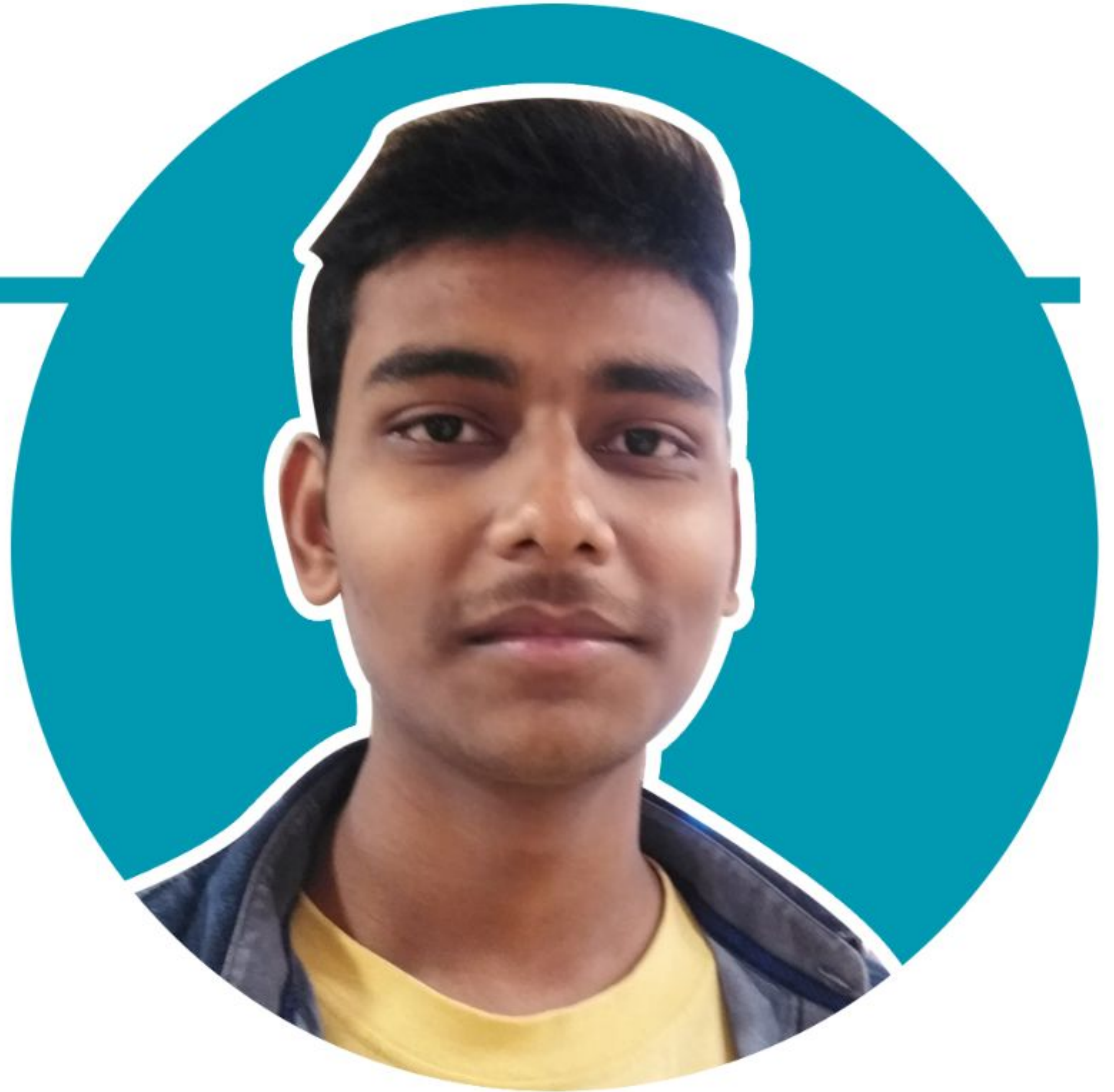


Shubham Sahoo

EC | RK | 2022

1. 2nd prize awardee in Autonomous driving at the 27th Annual Intelligent Ground Vehicle Competition.

2. Captain of the Gold winning Team Volleyball in the years (2017-18 and 2018-19) in Sports General Championship at IIT Kharagpur.



Shubham Sahoo was awarded 2nd Prize in the Autonomous driving at the 27th Annual Intelligent Ground Vehicle Competition, held at Oakland University in Rochester, Michigan, the United States. He built a self-driving robot that autonomously navigates to the desired GPS waypoints traversing through a lane and avoiding the obstacles. He also won a Silver medal in Volleyball at the 54th Inter-IIT Sports Meet 2019-20, held at the Indian Institute of Technology Bhubaneswar. He served as Captain of the Gold winning team in Volleyball for the last two years (2017-18 and 2018-19) in Sports General Championship at IIT Kharagpur.



Soumya Yadav

CE | AZ | 2021

1. Soumya Yadav is an author of the upcoming research paper on "Intelligent Wastewater Quality Management System" which is to be featured in the 'Asia Oceania Geosciences Society' conference.

2. His team won the first prize in the competition organised by the Indian National Academy of Engineering; developed low cost solutions to minimise fatality owing to accidents.



Soumya was a member of team which won first prize in competition organised by Indian National Academy of Engineering by beating more than 40 teams of Pan India Region. Their product was designed to provide low cost solution to minimize the fatality during golden hour after the accident. He also contributed to the research for Intelligent Wastewater Quality Management System during a foreign internship at Southern University of Science and Technology, China (SUSTech) last winter. There he worked on the integration and building pipeline to process the data collected by sensors and using it to generate insights. The contribution to the research was identified by including him as an author to the upcoming research paper in "Asia Oceania Geosciences Society" conference.



Tanvi Garg

BT | SNIG | 2022



1. Tanvi Garg will be doing her Internship in Montreal in summer 2021 and worked on a project on breast cancer.

She has gotten a Summer Internship Opportunity in Montreal, Canada along with a stipend for travel, accommodations, etc. for 3 months by MITACS. Host university: University de Montreal(IRCM) also associated with McGill University. The project has been on breast cancer HER2+ progression via the receptor Tyrosine Kinase AXL. She has done online projects in IIT Roorkee and IISc Bangalore in September 2020 and then in Simon Fraser University at Vancouver for Winter 2020. She is also a member of IGEM project team from Biotechnology Department, IIT Kharagpur.

Varanasi Sai Subhankar

AE | LBS | 2022

1. He was honoured with the prestigious ASME IGTI Scholarship and AMSE Foundation Variable Scholarship.

2. He has an exemplary contribution in the area of turbomachinery engineering.

3. He was a lead author in an international conference publication in the field of turbomachinery.



Varanasi Sai Subhankar has been honoured with two prestigious scholarships from ASME during June 2020. One of them is the ASME IGTI Scholarship, which is awarded to only 20 students globally and the another is AMSE Foundation Variable Scholarship which is awarded to only three students globally. ASME International Gas Turbine Institute (IGTI) has a long and proud history of providing scholarships to the students who show promise for their future profession in the turbomachinery and turbine engine field. The award recipients are selected based on scholastic ability and potential contribution to the turbomachinery engineering community. By the time of application, Subhankar was already the lead author in an international conference publication in the field of turbomachinery. As of today, he has co-authored two international conference publications and one national conference publication. Apart from this, he has also been selected as a Mitacs Globalink Research Intern to carry out research at the University of Manitoba during summer 2020.



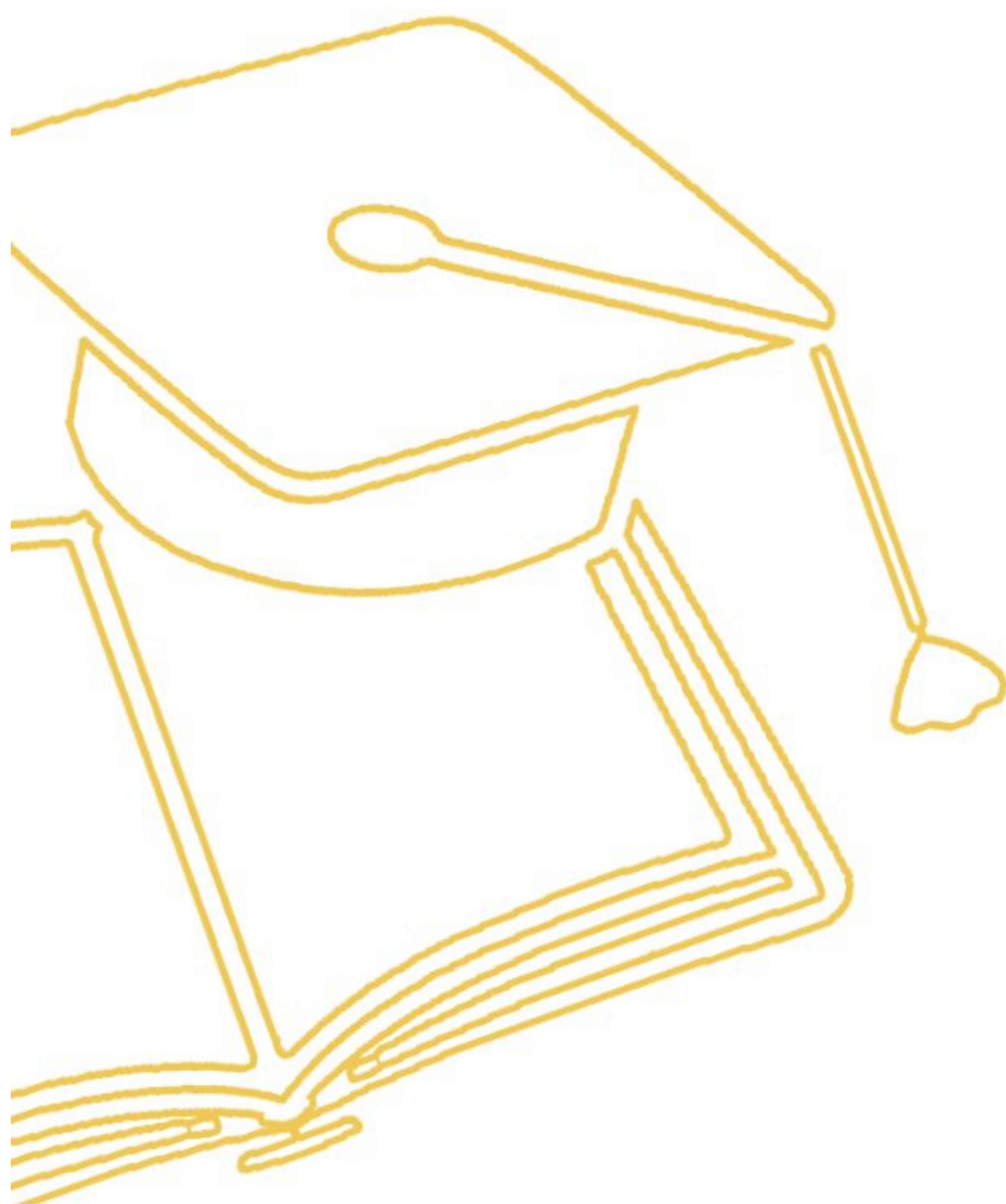
Zenil Rupesh Sanghvi

CH | MMM | 2022

1. He was awarded the DAAD WISE Scholarship by the Technical University of Berlin.
2. He was awarded the prestigious ESEP-India Scholarship for his research internship at University of Tokyo.
3. He was runners up in the Pan India Technical Case Study, organized by Dr.Reddy's.
4. He has department rank 1 in the Chemical Engineering department in the year 2020.



Zenil Rupesh Sanghvi was awarded the DAAD WISE Scholarship for his research internship at Technical University of Berlin in Germany in the year 2020. He was also awarded the prestigious ESEP-India Scholarship for his research internship at University of Tokyo which is a top notch University of Asia situated in Japan. ESEP-India is a program held under India-Japan Industry Academia Government collaborative education program. Not only this but he also emerged as the runners up in the Pan India Technical Case Study which was organized by Dr.Reddy's. He also secured an overall department rank 1 in the Chemical Engineering department in the year 2020.



GROUP ACHIEVEMENTS

**"BE LESS CURIOUS
ABOUT PEOPLE AND MORE
CURIOUS ABOUT IDEAS."**

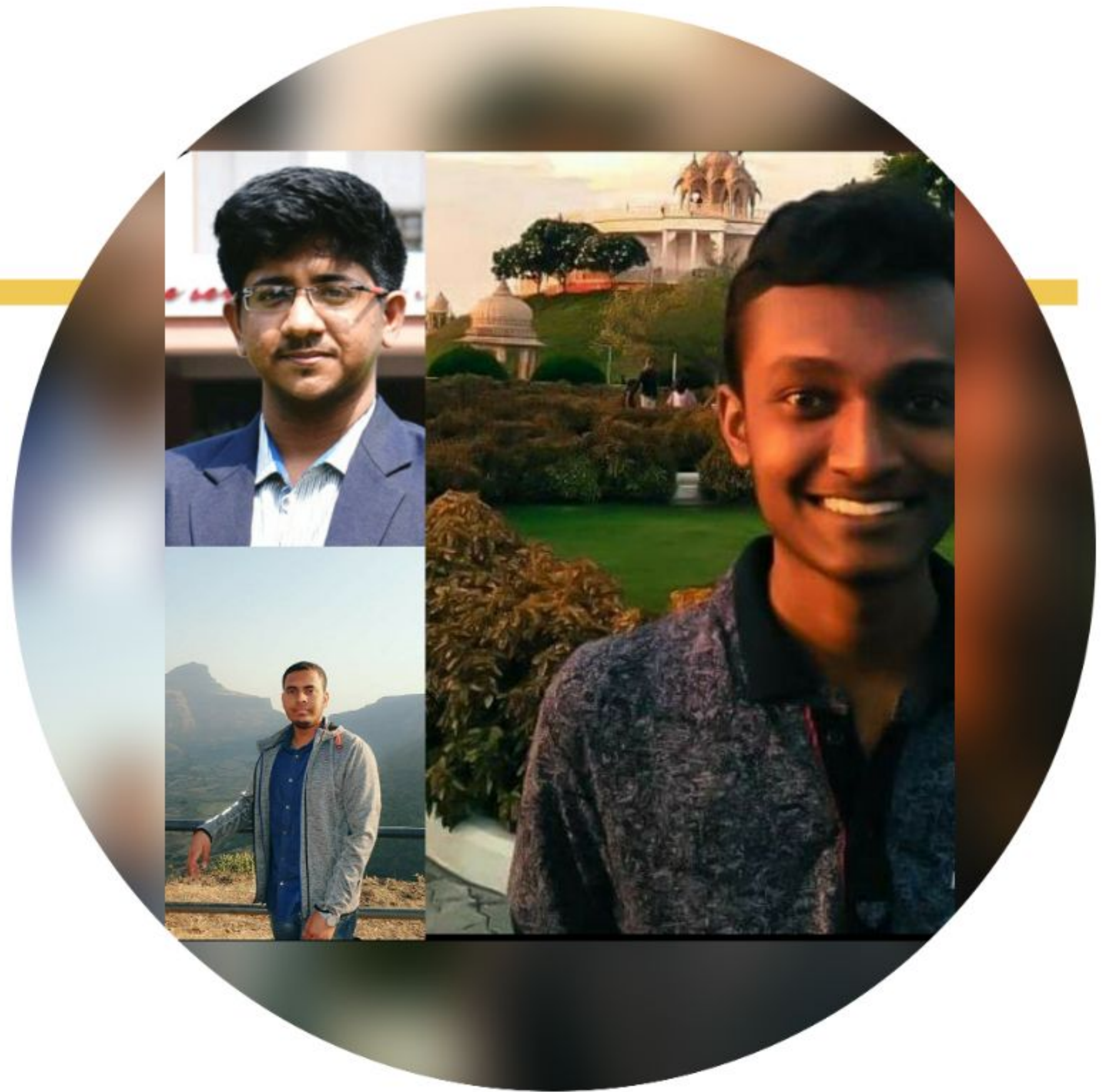
-MARIE CURIE

ACM-ICPC world finalist

Vivek Gupta

Shubham Patil

Nitish Kumar Rai



The trio have qualified for the most coveted ACM-ICPC (considered as “Olympics of Programming competitions”) World Finals 2020, and would be representing IIT Kharagpur along with 8 other teams from all over India at premier MIPT University in Moscow, Russia. The contest participants come from 3000 universities across 111 countries. They have founded AlgoZenith, a coding and teaching platform for cracking coding interviews. Apart from this, Vivek has received a Tower research capital merit scholarship in 2018-19, which is given to 2 students from the whole campus yearly. Also Nitish was the National Winner of JP Morgan Quant Challenge 2019 in the Algorithmic Programming category, which was opened to various top tier institutes in India.

Best Student Paper Award, IAA-ISRO-ASI Symposium on Human Spaceflight Programme, 2020

Jasmine Jerry A

Shilpa Sajeev

Ayushi Shakya



The invited paper and presentation was adjudged the best among many teams at the Students' Session on the first IAA-ISRO-ASI Symposium on Human Spaceflight Programme, held in Bangalore on 23 January 2020. The paper entitled, Space Robotics versus Humans in Space, explores this debate by reviewing the development that took place in both fields. This is followed by a thorough analysis of the scientific output, cost, efficiency and safety of both sides and concludes with suggestions for policy and future areas of importance.

APAC Regional Semifinalist

Ritika Agarwal

Shubham Maheshwari

Tanay Jagani

Daksh Thakkur

Satwik Bansal



The team participated in the 9th edition of CFA Institute Research Challenge, organised by the CFA Institute. It is widely considered as the Olympics of valuations for students. They had to prepare a sell side equity research report and a pitch deck giving a Buy/Sell recommendation on the target company. Based on their performance in the above mentioned deliverables, they qualified as one of the three teams to represent India on the APAC regional level. Moreover, they have the distinction of being the first Undergraduate student team to represent India in APAC Semi Finals and the first team from IIT Kharagpur to reach that far in the competition since the competition has been conceptualized.

ESL Runners-Up, Australasian Intervarsity Debating Championship 2020

Mirambika Sikdar

Tiyasha Mitra



They emerged as the first team ever from India to reach the finals (ESL Category) of the Australasian Inter-varsity Debating Championship. The tournament is the world's largest and toughest 3v3 debating championship and the second largest among all styles of debating (after WUDC). It is held in Australia/New Zealand every year and witnesses the participation of more than 50 countries across the continent of Australia and Asia. This is a matter of pride for IIT Kharagpur as it is the only institution to have been to the finals of Australs major from India.

First Place in International Micro Air Vehicles Conference and Competition

Parakh Agarwal
Mohit Singh
Biswajit Ghosh
Abhinav Ukey
Archit Rungta
Yash Soni
Ganesh Shiridi
Balaji Udayagiri
Debjoy Saha
Raghwendra Dey



This team from IIT Kharagpur won the first prize in the indoor problem statement for the International Micro Aerial Vehicles Conference and Competition (IMAV) 2019, held at Polytechnic University of Madrid (Universidad Politécnica de Madrid), Spain. This is that first Indian team to win the IMAV competition, which has had a history for over eleven years. 14 teams from 11 different countries had participated in the competition. The problem statement consisted of warehouse management, shelf passing, package pick and drop, and precision landing. The warehouse was labeled using alphanumeric codes; the task was to associate with the QR codes of packages to the correct position in the warehouse. Later, they had to pass their quadcopter between the shelves and finally had to complete the task of precision landing.

Global Finalist and Regional Winner - ASCM Supply Chain Case Study

Rohit Sar

Rohan Sewani

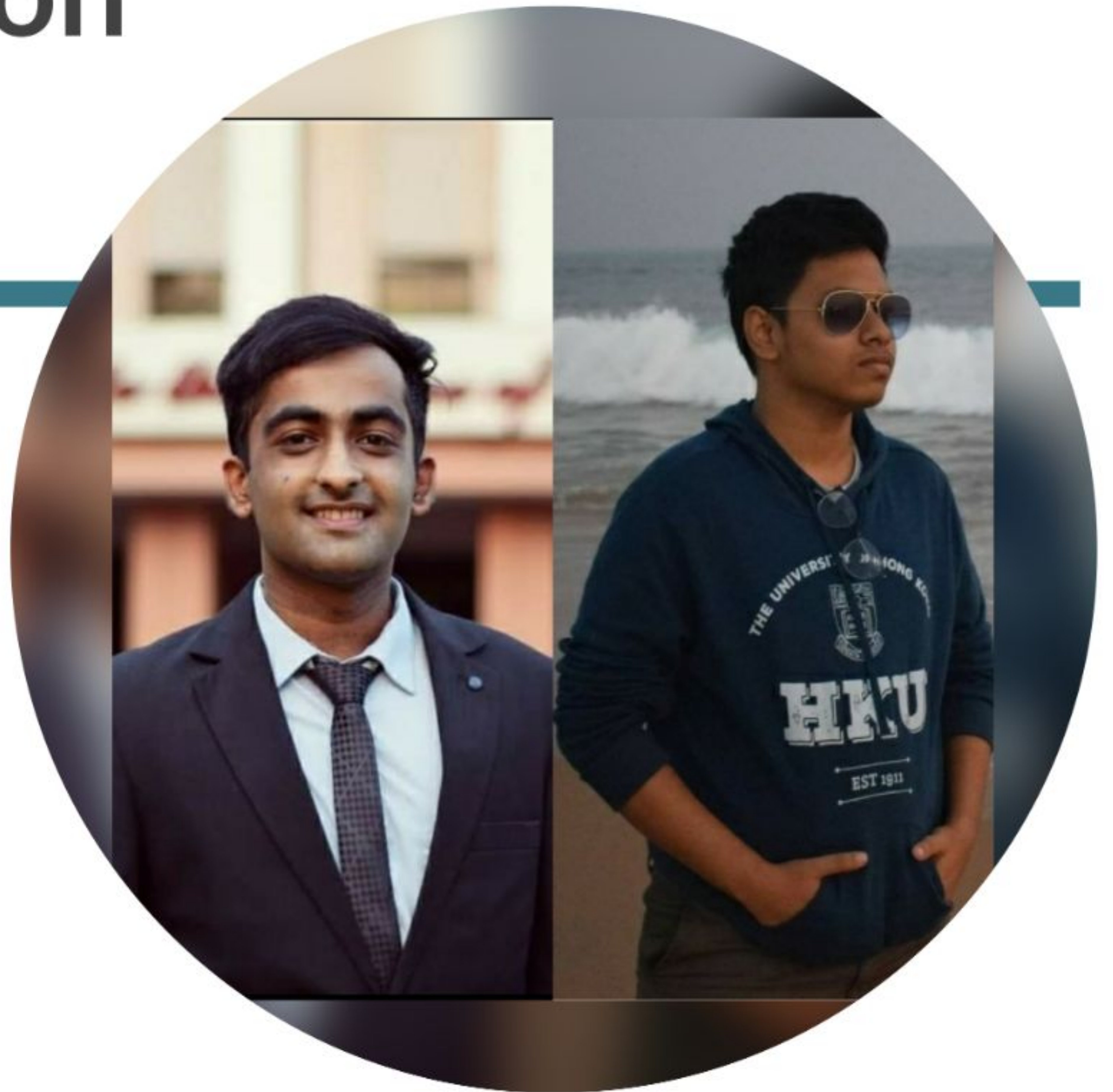


The team of Rohan Sewani and Rohit Sar participated in the international supply chain case study organized by ASCM. The competition provides student teams with an opportunity to enhance and test their supply chain knowledge by working on end-to-end supply chain challenges drawn from company experiences. After the school round, the team was then selected for the regional finals of the South Asian region and was declared winner of the same. They then represented India in the Global Finals, held in Las Vegas, Nevada, USA and were ranked in the top 5 teams all over the world.

IEEE Transactions on Intelligent Transportation Systems

Rohan Sewani

Dyutimoy Das **Nirupam**



The team has published a paper in the esteemed journal of IEEE Transactions on Intelligent Transportation Systems titled "Synchronized Truck and Drone Routing in Package Delivery Logistics". Nirupam Das and Rohan worked under the supervision of Prof. J.W.Wang, University of Hong Kong, and Prof. M.K.Tiwari, IIT Kharagpur on this project. The use of Unmanned Aerial Vehicles (UAVs) in delivery logistics has become an efficient solution with the advancement of autonomous robotics. This paper proposes a novel mechanism that synchronizes drones and delivery trucks; particularly the case where trucks can work as mobile launching and retrieval sites

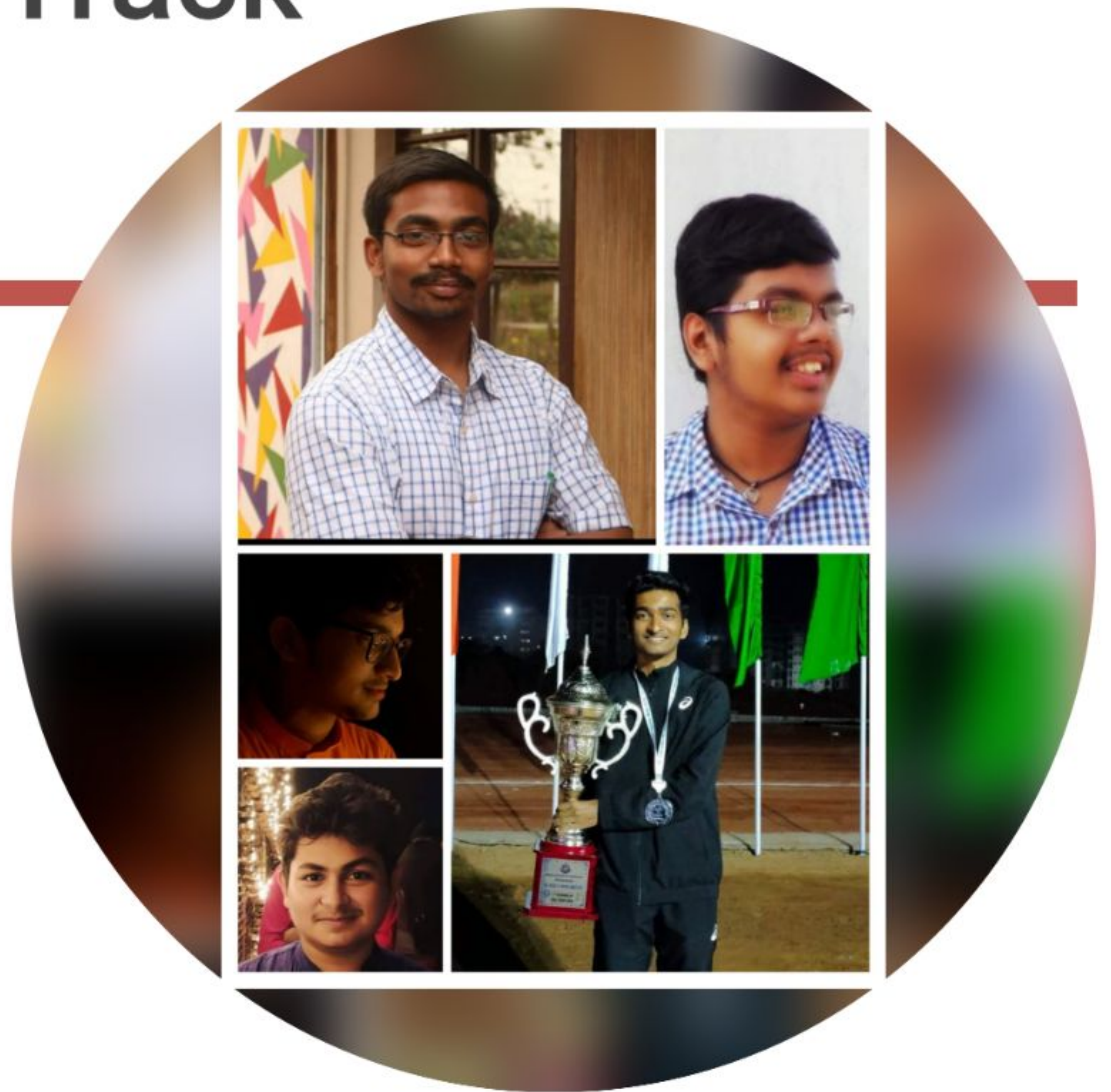
National Finalist in Flipkart's Grid 2.0-Robotics Track

**C Siva Vignesh
Krishnan**

Abhinav Gupta

Vibhakar Mohta

**Shivam Kumar
Panda**



The team has reached to the National finals in Flipkart's Grid 2.0- Robotics Track by being among the top 9 teams, among 1500 groups. GRiD is Flipkart's Flagship Engineering Campus Challenge. They bring Live Problem Statements from the world of E-Commerce to India's brightest minds to put our capabilities to the ultimate test. In the entirely virtual event, the team has proposed a novel low-cost robot for warehouse management. This robot intelligently picks and places objects of up to 2 kgs and reaches 2m.

NEC Environment Hackathon by NEC Japan and HackerEarth

Pranav Agarwal

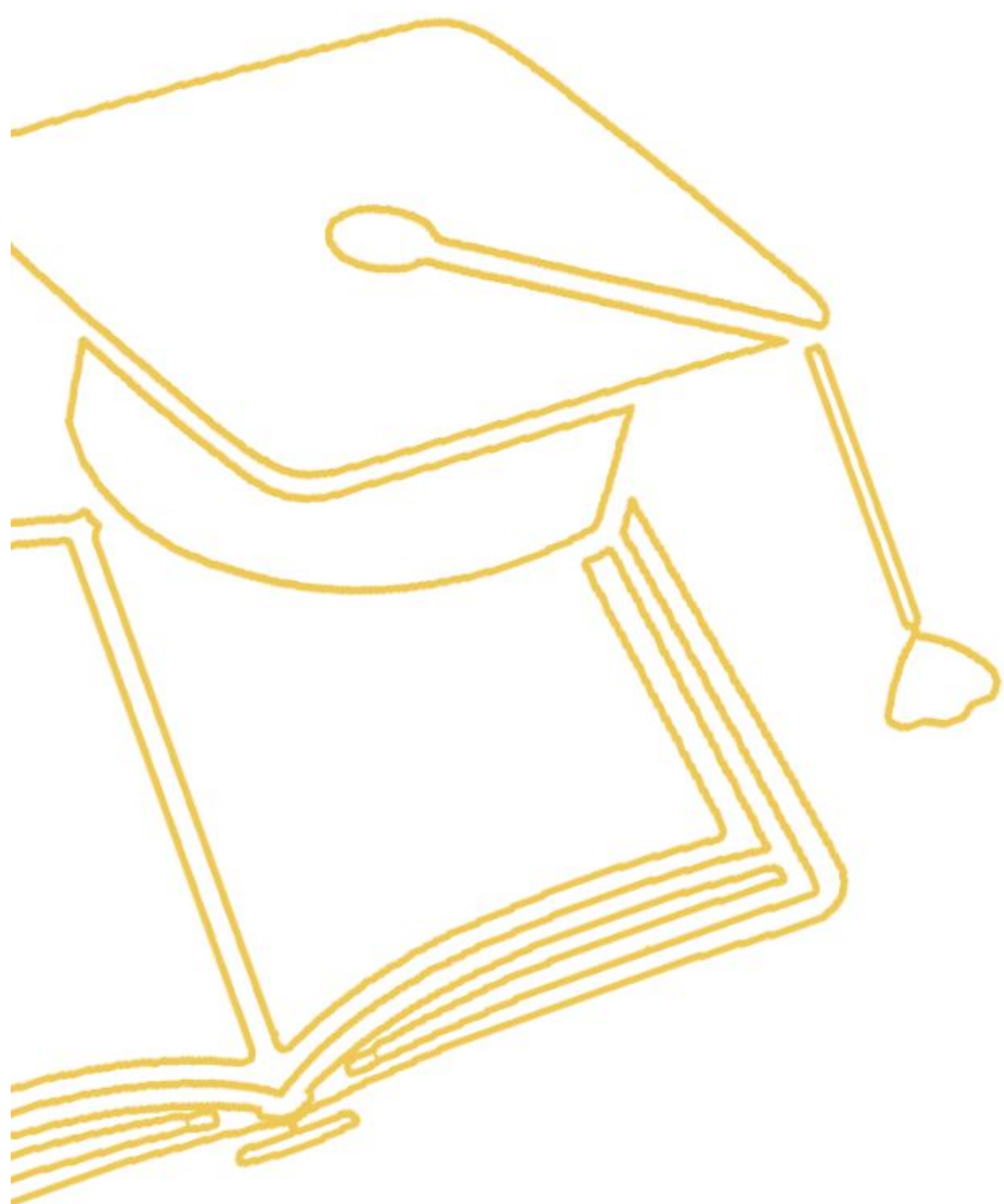
Paras Chaudhary

Shivam Tiwari

Vaishnav Katiyar



The team has won 2nd Prize at NEC Hackathon 2020, organised by HackerEarth and NEC Japan, where the group has conceptualized and developed an Android application (BioNet) which enables farmers of India to sell their agricultural residue generated in their fields to biofuel producers. It acts as an online platform for farmers to contribute to biofuel production irrespective of their agricultural residue amount as well as to bid for profit instead of burning it. Google Maps SDK for Android and Directions API have been used for location and shortest pathway finding while Quicksort has been used to optimize and reduce loading times. Firebase has been used as a real-time database. The competition has been held in an online format due to coronavirus restrictions.



Robotic Motion Planning using Learned Critical Sources and Local Sampling

**Rajat Kumar
Jenamani**

Rahul Vernwal

Parth Mall

Kushal Kedia



The team has published a paper on "Robotic Motion Planning using Learned Critical Sources and Local Sampling". The article was one of the 17 papers selected for presentation for the Fourth Machine Learning in Planning and Controls workshop at ICRA. The IEEE International Conference on Robotics and Automation (ICRA) is the most prestigious academic conference globally for covering advances in robotics. Papers are judged based on technical merit, originality, relevance, and potential impact on the field. The achievement has become more impressive as the undergraduate team has driven the project from ideation to publication at a top-tier conference without faculty help.

Asia Finals Runners-Up ASCM International Supply Chain Case Competition 2020

Anjali Rao

Akshat Jain

Saksham Parashar



The team represented IIT Kharagpur in the Regional (Asia) Finals of ASCM International Case Competition 2020 provided by ASCM, in collaboration with Deloitte Consulting LLP. It is considered to be the best-in-class global event in the supply chain industry. They competed against teams from 300+ countries and secured a position among the top 64 teams globally, finally emerging as the Runners-up of Asia Finals which was held at Hyderabad.



Secured 3rd in Second National Aircraft Conceptual Design Competition organized by AeSI

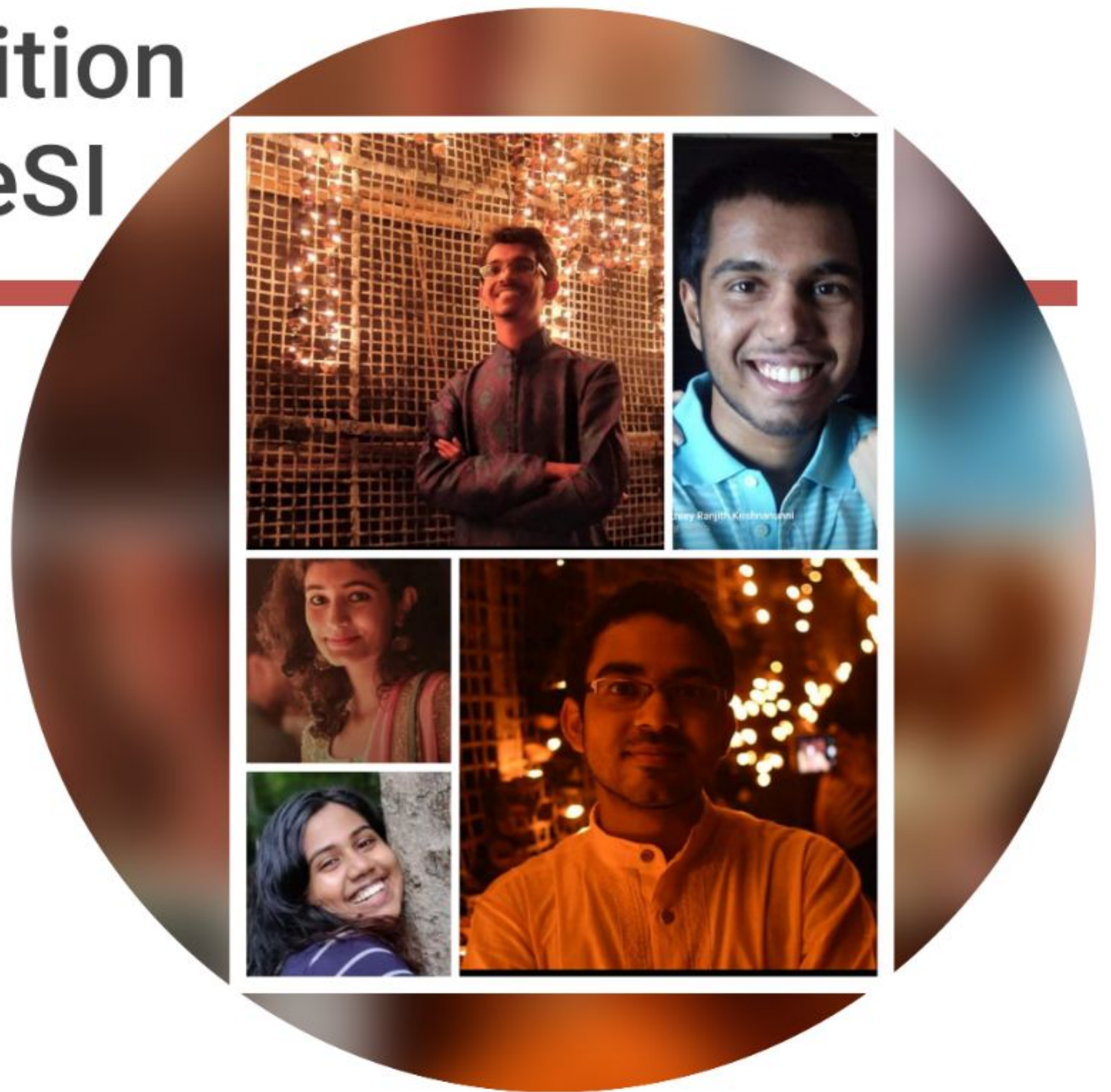
**Athrey Ranjith
Krishnanunni**

Jasmine Jerry A

Shilpa Sajeev

Aditya Prajapati

Shaurya Shrivastava



A team of undergraduate students from the Department of Aerospace Engineering represented IIT Kharagpur in the Second National Aircraft Conceptual Design Competition organized by the Design Division of the Aeronautical Society of India and secured third place in the final round, winning a cash award of Rs 10000. The problem statement was to conceptually design and size a LIDAR-equipped unmanned high altitude aerial platform (LU-HAP). The team was led by Athrey RK, a fifth-year undergraduate and comprises Shilpa, Aditya, Jasmine and Shaurya.

Special Commendation Prize (4th place) of \$500, International Essay Competition

Amitanshu Kumar

Arya Ranjan

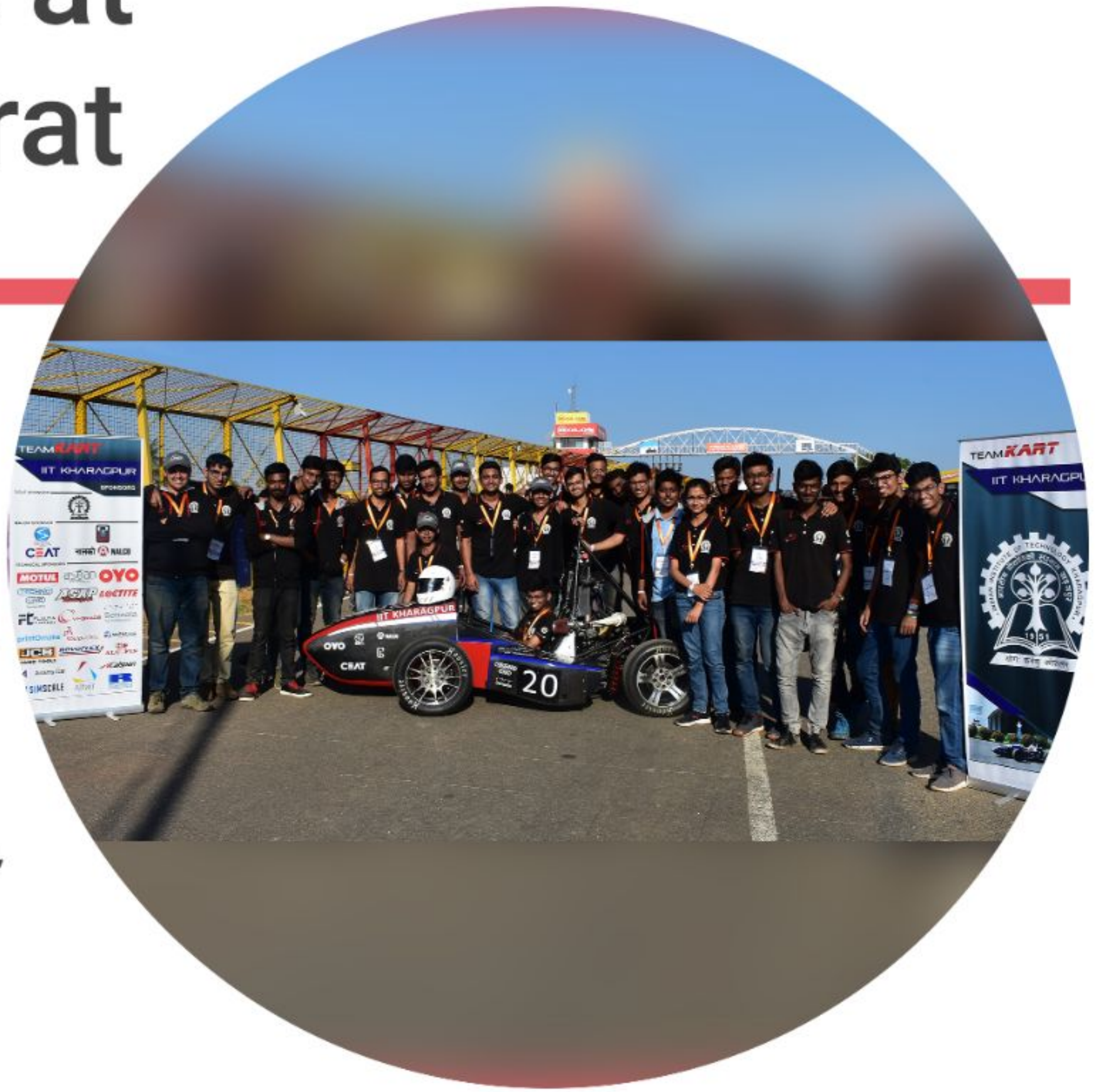


The duo team, on behalf of 604 Korean community leaders, represented 20 nations in South East Asia and Oceania, Asia Pacific Assembly of the NUAC in the month of September 2020. They had written an analytical, persuasive and assertive essay on the topic "Peace on the Korean peninsula and public diplomacy" in 5000 words. They are the sole recipients from India, and one of the five winners internationally. They won a special commendation prize of \$500 in this international essay competition.



TeamKART`s Best Ever Performance at Formula Bharat

Amar Bapat, Arya Tathe,
Gaurav Bisen, Keshav Bagri,
Moinak Ghosh, Shivansh Laad,
Siddharth Porwal, Sumedh Lodhi,
Swarnim Raj, Vydyula P.Vardhan,
Sudhanshu Shankar, Vasu Chourasia,
Subhadeep Mondal, Utsab Pal,
Pankaj Sethi, Devank Thawre,
Pratyush Saha, Swagat Susmoy,
Bashu Aman, Aastha Sharma,
Debangshu Das, Shaurya Shrivastava,
Sumit Adwani, Tuhin Atta,
Tushar Patle, Vaibhav Kant Agrawal,
Vatsal Kapadia, Sajal Agrawal,
Pranjal Kaushik, Abhishek Adhave,
KalpajBanik, Rushikesh Sawarkar.



TeamKART has yet again proven its mettle in the national sphere of Formula Student by performing exceptionally well in the Formula Bharat 2020 competition, in Coimbatore, held in January 2020. The team has designed and manufactured its 7th combustion car, K5, achieving a new feat of completing the car in a year. The car was 2nd out of 51 teams to clear mechanical inspection & tilt test in the competition. With the technical inspection behind its back by day 3, the team has focused and delivered in the static events, namely Engineering Design, Cost and Manufacturing, and Business Plan Presentation(BPP), and also qualified for the finals of BPP. The team has stood 2nd in the BPP event with praiseworthy standings of 6th and 15th in Engineering Design and Cost and Manufacturing Events, respectively, and overall standing of 10th.

Winner in MIT Covid-19 Challenge

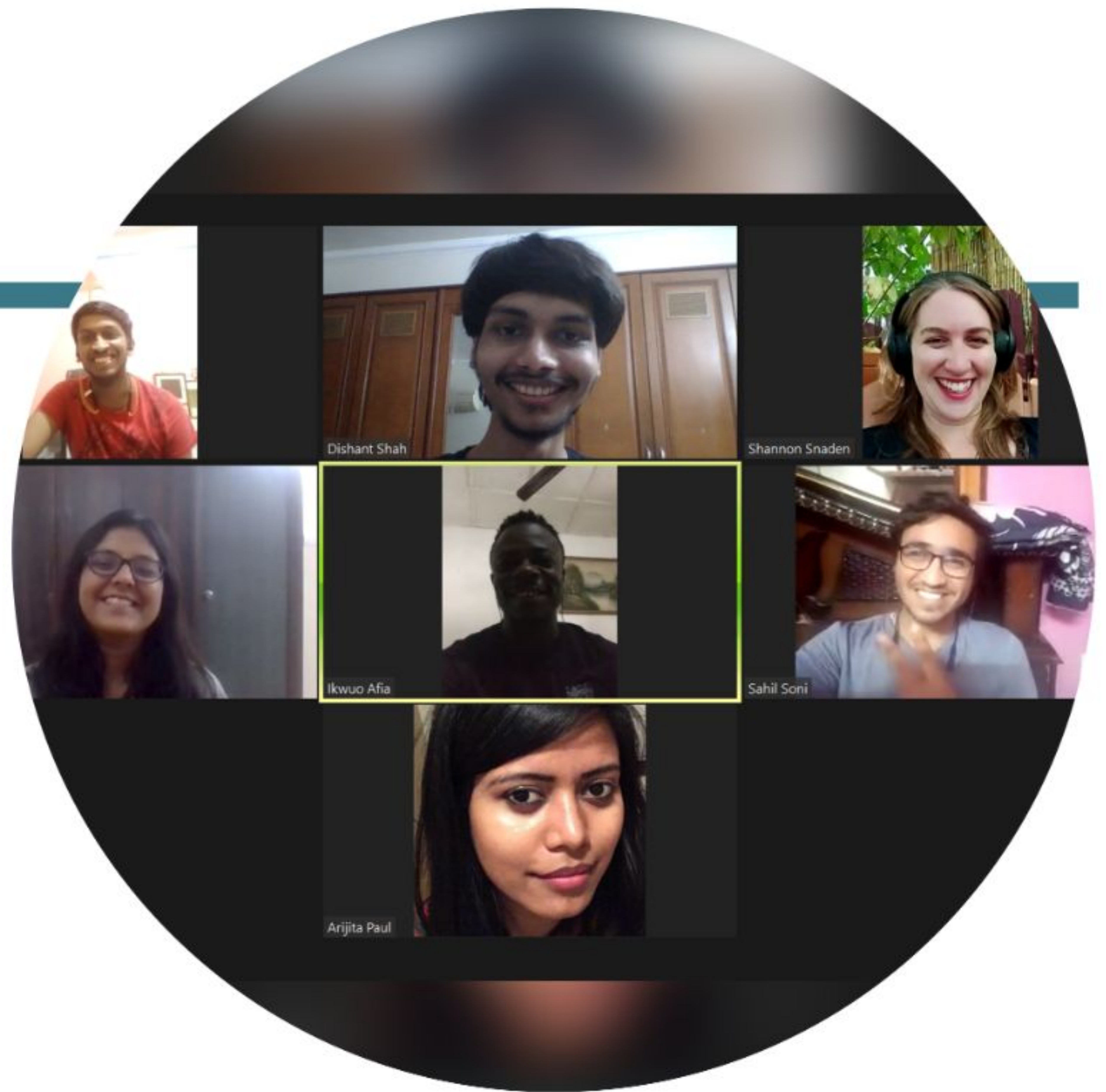
Sahil Soni

Arijita Paul

Ikwuo Afia

Dishant Shah

Madhura



They emerged as the winners in the MIT Covid-19 Challenge 2020. They proposed solutions to ease the situation in the pandemic. They aimed to go beyond EBT screening and to screen more people using existing thermal imaging devices, and make it easier for employees to hire daily wage workers. They analyzed the ongoing problems in mass testing and delivered remedies for filtering of possible abnormalities to help the migrant workers get easily hired. The team also procured a regression model that analyzed the primary feature of temperature and breathing patterns to predict any abnormalities in health.

Winner of AI-Email Classifier

Bhaskar Basak

Rana Madhvendra

Ayantika Saha

Prince Bharadwaj



The team bagged the first prize in the competition 'AI-Email Classifier' which was organized by IIT Bombay Techfest 2020 and sponsored by Marsh and McLennan Companies. They developed a supervised NLP classifier to classify emails into corresponding classes as specified by the user. They created a user-friendly web interface with easy training and testing features which allowed the user to tune hyperparameters to suit their particular data set. They entered the finals after clearing two preliminary rounds and competing with 400 teams. In the finals, they secured the first rank out of a total of 7 teams.

Winners Of Smart India Hackathon 2020

Krishnam Kapoor

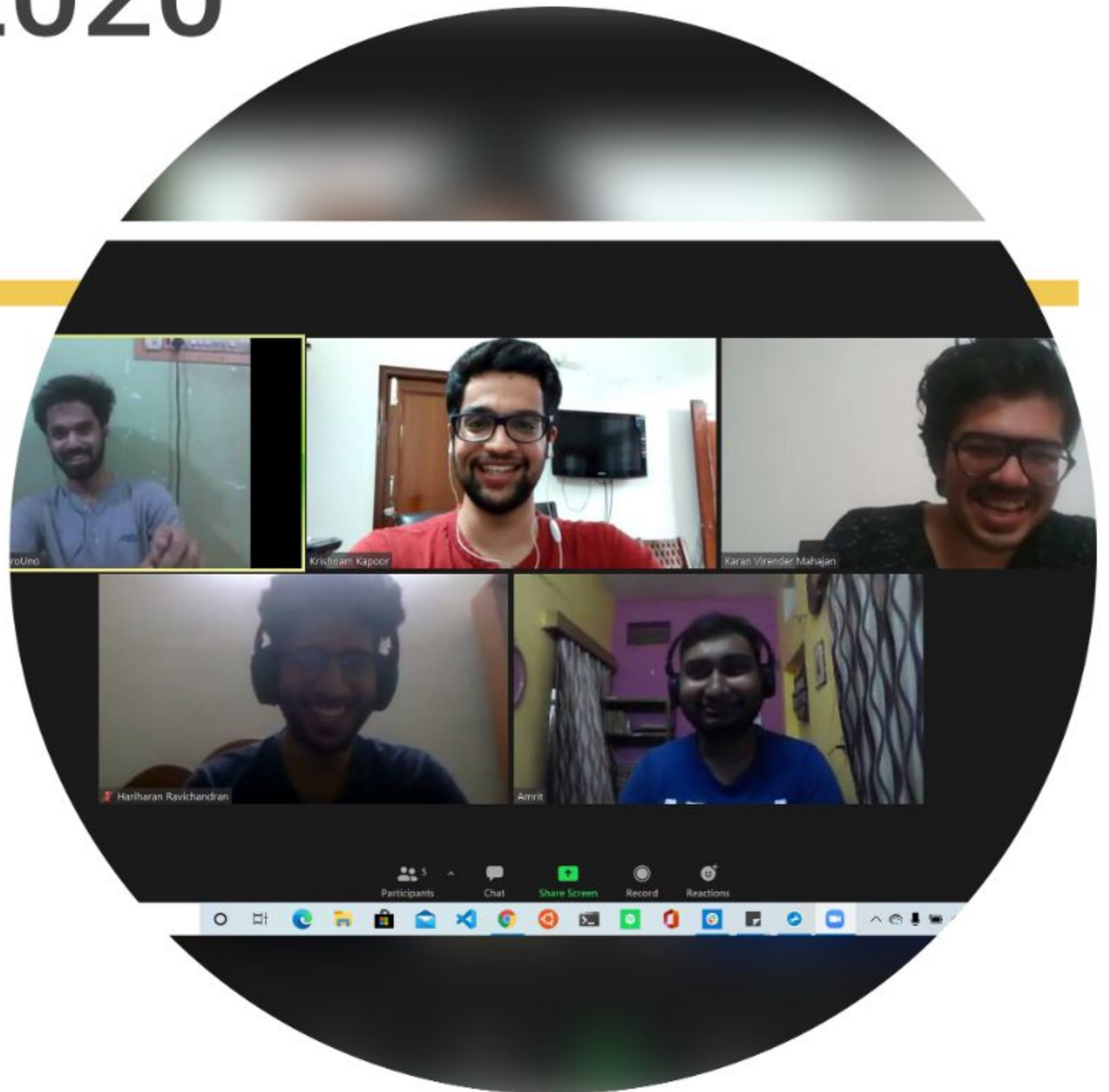
Aditya Parashar

Karan Virender

Mahajan

R Hariharan

Amrit Goswami



They won India's largest government-sponsored competition Smart India Hackathon, a platform to solve some of the pressing problems we face in our daily lives. This team "NumeroUno" solved the challenge presented by the Ministry of Housing and Urban Affairs, which was judged by eminent IAS officers in the central government. The AI agent called DRAMS (abbreviation for Disaster Relief and Management System) was specially trained to handle a critical situation, was an end to end solution which would enable the administrators to track disasters in real-time, alert the citizens in the affected area dynamically and dispatch emergency services automatically in the most resource-efficient way by leveraging the existing CCTV network of smart cities.

SENIOR CO-ORDINATORS



Avi Agarwal



Ishita Agarwal



Pranjal Shukla



Prathmesh Deshmukh



Radhika Agrawal



Rishabh Agrawal



Shashank Shrivastava



Shashank Srivastava



Vivek Shirole

STUDENT MEMBERS



Anudeep Ramteke



Jnanasree Konda



Keerthi Reddy



Mahil Shaik



Mann Patel



Manthan Patel



Rushi Yerawar



Saamira Yasmin



Sai Manohar



Shanmukha Sainath



Shivaay Dixit



Yuvraj Gupta

MESSAGE FROM THE GENERAL SECRETARIES



Pranjal Shukla



Shashank Shrivastava

We feel proud to be representatives of an institution as august as IIT Kharagpur, the country's first and oldest IIT. As flagbearers of our college, we always try to give our best. Some of us have proven our merit in academics, some in sports, debate, quiz or other extra-curricular activities.

We are thankful to the college authorities for making it possible for us to take part in various competitions, seminars and shows not only inside the college but also all around the world even in pandemic situations where such opportunities have been narrowed down. Facilities have been provided to hone our skills and they are being constantly upgraded. Our teachers and our friends are our greatest support and source of inspiration.

As members of the Branding and Relations Cell, we believe it is imperative to showcase the outcome of this ecosystem inside a college that is reflected in the various achievements of the students. After the success of the first edition where we were flooded with such recognisable achievements of our fellow students, here we are with the second edition and we hope that we have been able to do justice to our friends, classmates, hallmates and roomies. Each one of us has some achievement or the other to report. Since it is impossible to report each of them, we have cherry-picked a few. That does not mean the achievements of the rest can be easily dismissed. Each achievement, even the intensely personal ones, is important. We encourage everyone to go out and win big time in whatever goals they have set for themselves.

As quoted by Mahatma Gandhi-

"Satisfaction lies in the effort, not in the attainment, full effort is full victory." 70

The future belongs to
those who
believe in the beauty of
their dreams

Eleanor Roosevelt





An initiative of Branding & Relations Cell of IIT Kharagpur

✉ media@iitkgp.ac.in
f www.facebook.com/IIT.Kgp/
i www.instagram.com/iit.kgp/
t twitter.com/IITKgp

✉ barc@iitkgp.ac.in
f www.facebook.com/barciitkgp/

