

VOLUME

01

August
2021



THE IEEE IGDTUW GAZETTE

Annual Newsletter of the IEEE Student Branch at IGDTUW

- LET YOUR SUCCESS BE HOLISTIC
- A LETTER TO ALL THE BUDDING WOMEN ENGINEERS
- WHAT IGDTUW TEACHES YOU
- THE CURIOUS CASE OF THE 2020 BATCH

MORE INSIDE!

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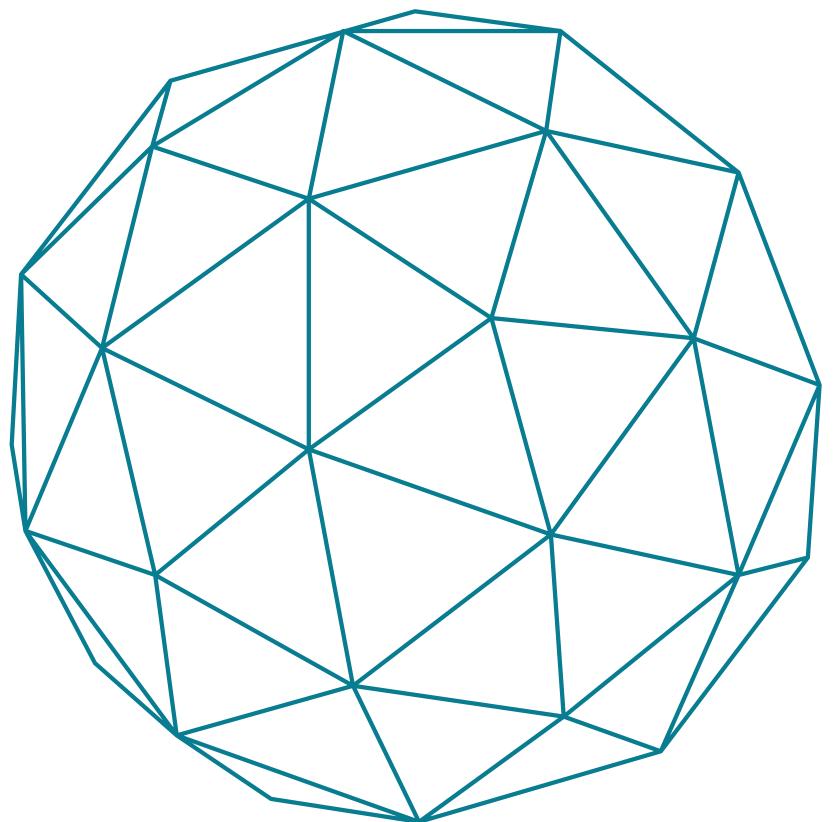
Acknowledgement and Disclaimer

We sincerely acknowledge the contributions of all the authors in bringing out this newsletter.

The views and opinions expressed are those of the respective author and do not necessarily reflect the official policy or position of IEEE IGDTUW.

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You can mail us at
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MEET THE CORE TEAM!

STUDENT BRANCH CHAIR

Satwika Bhattacharjee



Hola! I am currently working as an Engineering Analyst in Goldman Sachs and have graduated from IGDTUW in ECE. I am also the Industry and Corporate Relations Coordinator in IEEE Delhi Section Young Professionals AG. I was the IEEE Chairperson in the 2020-21 session. I believe that our actions speak more than our words. I love singing and binge-watching during my idle time. I am an ML enthusiast and have also published some research papers.

EDITORIAL BOARD

Srinidhi Ayyagari



Hello there! I am currently pursuing Bachelor's of Technology in IT, from IGDTUW. I worked with Microsoft as a Software Engineering intern in the summer of 2021. "Be humble, be teachable, and always keep learning" is something that I truly believe in. When I'm not working on a tech project, I'm completing an assignment, learning Carnatic music, playing cricket and solving sudoku! In fact, it was while reading a sports blog, that I got the idea and concept for this newsletter!

Kirti Bhardwaj



I am a Masters in Computer Applications (MCA) student at IGDTUW. I have an avid interest in research and have published multiple research papers until now, ranging from Data science to Big data while also being an active volunteer and a strong, self-proclaimed advocate for mental health. When I am not working, I love reading, writing and going for walks on rainy days or simply, binging on Harry Potter books. By the way, my favorite spell from the series is Accio - the ideal spell for the lazy.

Kashika Hingorani

Hey! I am an Electronics and Communications engineering student at IGDTUW. I have been volunteering at IEEE IGDTUW for the past two years. Currently I am the Editorial head there. I have also volunteered as the WIE representative at IEEE Delhi Section. In my spare time, I like to go for walks and listen to podcasts. I believe that the most important quality one can have is the ability to learn. To learn is to grow, it is to evolve, it is to master.

DESIGN TEAM**Nishtha Mahajan**

Hey! I'm currently pursuing Bachelor's of Technology in Electronics and Communication. I have been volunteering at IEEE since the past year as a Graphic Designer. I was the Publication Head at IEEE IGDTUW and the Graphic Design Coordinator at IEEE WIE Delhi Section Affinity Group, for the tenure 2020-2021. I am currently serving as Graphic Design Coordinator at IEEE Young Professionals Affinity Group. I have worked with Western Digital as a Firmware Development Intern this year. Apart from that, I'm a Professional Classical Dancer, a Kathak graduate and have 15+ years trained in my respective field.

Sristi Sharma

Hello, I am Sristi Sharma pursuing Bachelors of Technology in computer Science. I have been volunteering at IEEE since the past year as a Graphic Designer and am the Publication Head at IEEE IGDTUW, currently. I was Flipkart's GWC Scholar 2021 and Microsoft Engage mentee '21. I am a UI/UX design enthusiast and practice competitive Programming. In my free time you can find me binging series or sleeping.

Pallavi Singh

Hello! I am Pallavi Singh pursuing Bachelor's of Technology in Electronics and Communication at IGDTUW. I have been volunteering at IEEE since the past year as a Graphic Designer. Currently serving as an WIE Vice-Chair in IEEE IGDTUW. I am also serving as WIE Lead in IEEE Delhi SSN. Five words that describe me are hardworking, energetic, innovative, organised and reliable. I am an IoT and ML enthusiast and have done lots of projects on that. I am passionate about sports, I love to do a lot of workout.



PUBLIC RELATIONS AND COMMUNICATIONS

Divya Pant



Hello, I am Divya Pant, currently pursuing my bachelor's in Electronics and Communication from IGDTUW. I have been an active student volunteer in IEEE for the past 3 years. I have served as Wie Vice-chairperson for the tenure 2020-21 and as Technical Activities Coordinator at IEEE Delhi Section. I also worked with Schneider Electric as an intern this summer. In addition to this I like singing, exploring multiple genres of music and I love to play football. I believe that success will come automatically, you just need to focus on your goals.

CONTACT US

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Kashmere Gate, New Delhi, Delhi 110006**

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Facebook: <https://www.facebook.com/ieeeeigdtuw/>

Instagram: <https://www.instagram.com/ieeeeigdtuw/?igshid=vkkkocbwtcjc&hl=en>



LETTER FROM THE IEEE IGDTUW BRANCH COUNSELOR

Welcome,

IEEE IGDTUW, has always been one of the most prestigious of IEEE chapters across Delhi due to its dedication and innovation in all its undertakings. One such recent endeavour taken by our team is the IEEE IGDTUW Newsletter.

Through this collaboration, we intend to bring forth and share the varied experiences of students of IGDTUW and their success stories with the hope that these will further inspire the reader to dream and achieve her goals.

As a branch counselor of IEEE IGDTUW student chapter, I welcome all students as readers and writers, who have shared their experiences and those who wish to gain something new from this student newsletter catered specially by our team.

Wishing you all the best!



**PROF. JASDEEP
KAUR DHANOA**

Professor and Dean
(Academic Affairs)

IEEE IGDTUW Branch
Counselor

LETTER FROM THE WIE IGDTUW BRANCH COUNSELOR

The IEEE Student Branch of IGDTUW was established in 2004 and fosters a positive environment for students with immense enthusiasm for changing the world of technology and innovation. The Student Branch conducts a plethora of activities, workshops, webinars and competitions in which students participate and contribute with great fervour.

The editorial team of 2020-21 is releasing the first ever annual newsletter - The IEEE IGDTUW Gazette. And I couldn't have been more proud of the volunteers who helped in creating it. It had been a dream of ours since the past few years to have a publication that not only gives students an opportunity to publish their writings, but also to shine light upon the great volunteering work that the whole execom team does.

I would like to take this opportunity to thank the team for an amazing work and all the best for their future endeavours. I would also welcome all readers to benefit from this piece of knowledge and to share it with your friends and family!



**PROF. NIDHI
GOEL**

Professor and Head of
Department (ECE)

WIE IGDTUW Branch
Counselor

RECOGNITIONS & AWARDS

It feels great to be recognized and rewarded for our efforts. Members of IEEE IGDTUW have been felicitated with various recognitions and awards such as:

1. Prolong Excellence Award

IEEE IGDTUW under the guidance of Dr. Jasdeep Kaur Dhanoa

2. J.K. Pal Memorial Award

Satwika Bhattacharjee (ECE Batch 2017-21)

3. Outstanding Student Volunteer Award

Himanshi Gupta (ECE Batch 2018-22)

4. WIE Outstanding Volunteer Award

Mansi Kesharwani (ECE Batch 2017-21)

5. IEEE Delhi Section Student Network (SSN) Award

Divya Pant (ECE Batch 2018-22)

Hira Qureshi (ECE Batch 2018-22)

Kashika Hingorani (ECE Batch 2018-22)

Rishita Anand Sachdeva (ECE Batch 2018-22)

6. IEEE Delhi Section WIE Affinity Group Award

Ananya Sonkar (ECE Batch 2018-22)

Nikita Pal (ECE Batch 2018-22)

Nishtha Mahajan (ECE Batch 2018-22)



EVENTS CONDUCTED BY IEEE IGDTUW IN THE TERM OF 2019-20

“Productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning, and focused effort.”

-Paul J. Meyer

The year 2019-20 was definitely proof of this. Our team at IEEE IGDTUW conducted a large number of seminars and sessions to inspire and educate students. At the beginning of 2020, when the world suddenly went into lockdown, IEEE IGDTUW kept on going. We shifted to online mode; conducted successful webinars and competitions to help students through tough times. The following are some of the events that we conducted:

1. IEEE EDS Distinguished Lecture Talk on “Modeling and Simulation of Tunnel Field Effect Transistor” (20th August, 2019)

The speaker, Dr Manoj Saxena, Associate Professor, Deen Dayal Upadhyay College, DU, discussed the fundamental Insights into Channel and Gate engineered Double Gate Junctionless Transistors for Low-Voltage Low -Power Analog and Digital Circuits.

IEEE Delhi Section **IED** **ELECTRON DEVICES SOCIETY**

Indira Gandhi Delhi Technical University for Women
in association with
IEEE Electron Device Society and IEEE Delhi Section

JOINTLY PRESENTS

IEEE EDS DISTINGUISHED LECTURE TALK
on
“Modeling and Simulation of Tunnel Field Effect Transistor as a Biosensor”

FET based biosensor for realizing label free, fast and highly sensitive biomedical diagnostic tools has become a topic of major interest and attracted a lot of attention in the recent times due to its far-reaching and revolutionary impact on health-care industry. In the present talk, I shall discuss analytical modeling scheme for Dielectric Modulated Tunnel Field Effect Transistor (DM-TFET) based biosensor and shall highlight its advantages over DM-FET biosensors. Further, using technology computer aided design (TCAD), the role and influence of various process, experimental variations and hybridization profiles of the biomolecules on the sensitivity of the DM-TFET biosensor has been discussed to analyze the pros & cons of DM-TFET based biosensors by having a fair performance comparison with DM-FET biosensor.

on Tuesday, August 20, 2019 from 11:00 AM onwards at
Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi-110006

By DR. MANOJ SAXENA, Associate Professor
Deen Dayal Upadhyaya College
University of Delhi, Dwarka Sector-3, New Delhi-110021

Manoj Saxena is currently Associate Professor in Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi, New Delhi, India. He received B.Sc. (with honors), M. Sc., and Ph.D. degrees from the University of Delhi in 1998, 2000, and 2006 respectively. He has authored or co-authored 250 technical papers in international journals and various international and national conferences. His current research interests are in the areas of analytical modeling, design, and simulation of non classical MOSFET architectures like silicon-on-nothing, insulated-shallow-extension, grooved/concave-gate, cylindrical gate and Tunnel FET. He is reviewer to many journals including Solid State Electronics, Journal of Physics D Applied Physics and IEEE TED and EDL. He is Senior Member of IEEE and also Member of Institute of Physics (UK), Institution of Engineering and Technology (UK), National Academy of Sciences India (NASI), Associate of Indian Academy of Sciences, Bangalore; member of International Association of Engineers (Hong Kong) and IEEE Electron Device Society-Region 10 SRC Vice Chair (2016-2017). Currently, he is Regional Editor for South Asia, IEEE EDS Newsletter; Member – EDS Board of Governors; EDS Distinguished Lecturer and Fellow-IETE, India. For his voluntary contribution, he has received the outstanding EDS Volunteer recognition from EDS Chapters in the region in 2012.

Registration Link - <https://forms.gle/B642qpP2Yaae5cij48>

ALL ARE CORDIALLY INVITED



2. IEEE EDS Mini Colloquium (6th September, 2019)

had many lectures on the topic "Trends and Challenges in Microelectronics and VLSI Design". It was conducted by List of Distinguished Lecturers: Dr. Brajesh Kumar Kaushik, IIT Roorkee, Prof. Mayank Shrivastava, IISc Bangalore and Dr. Manoj Saxena, DU. The informative talks were followed by 'Project Presentation' by the students.



3. Panel Discussion on "Trends and Challenges in Microelectronics and VLSI Design (6th September, 2019)

It was attended by the following Panelists, who with their knowledge kindled enthusiasm among students to research in this field.

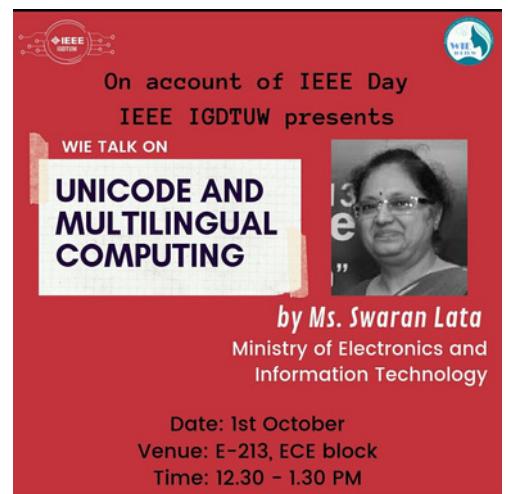
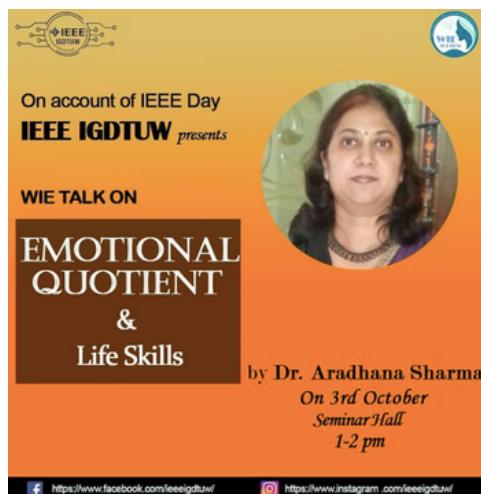
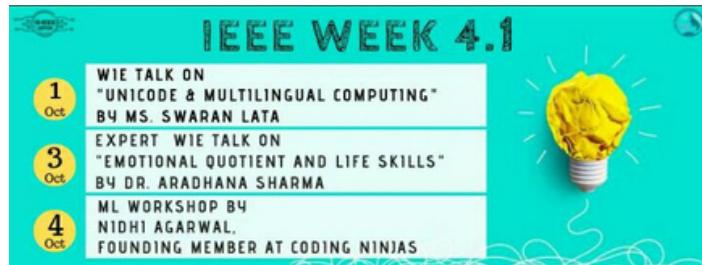
- Prof. M. N. Hoda, Director and Professor, Bharati Vidyapeeth's Institute of Computer Applications & Management
- Dr. Prashant Chugh, Vice-Chair, IEEE Communication Society Delhi Chapter, Group Leader, C-Dot, Govt. of India
- Dr. Sneha Kabra, Secretary, IEEE EDS Chapter, Delhi Section, Shaheed Rajguru College for Women, Vasundhara Enclave, DU
- Prof. Poonam Bansal, Deputy Director and Prof-CSE, MSIT, Janakpuri, Affiliated to GGSIPU, Dwarka
- Dr. V.K. Arora, CEO, Anveshan Foundation, IGDTUW



4. IEEE Day and IEEE Week 4.1 (1st - 4th October, 2019)

It was a week long event comprising of the following sessions:

- WIE talk on "Unicode and Multilingual Computing" by Ms. Swaran Lata - 1st October, 2019
- Interactive session on "Emotional Quotient and Life Skills" by Dr. Aradhana Sharma - 3rd October, 2019
- Workshop on Machine Learning in collaboration with Coding Ninjas by Mr. Parikh Jain - 4th October, 2019



5. Electro Enigma, in association with Innerve'19 (11th October, 2019)

IEEE IGDTUW in collaboration with INNERVE'19 organized an Arduino based event, Electro Enigma. The event consisted of two rounds: ideation and implementation and was judged by Ms. Manasi Mishra, ETI Labs. In the first round, the teams were given a limited set of components using which they were supposed to give an idea for a prototype. The selected participants were to make a prototype and PowerPoint presentation using the provided components in the second round.



6. IEEE Week 4.2 (3rd - 6th February, 2020)

It was a week long event comprising of several fun competitions:

- Treasure Hunt
- Bazzinga (Quiz)
- Hopscotch
- Logo Mania (Online Event)



7. Orientation of Sparsh Outreach Program (17th February, 2020)

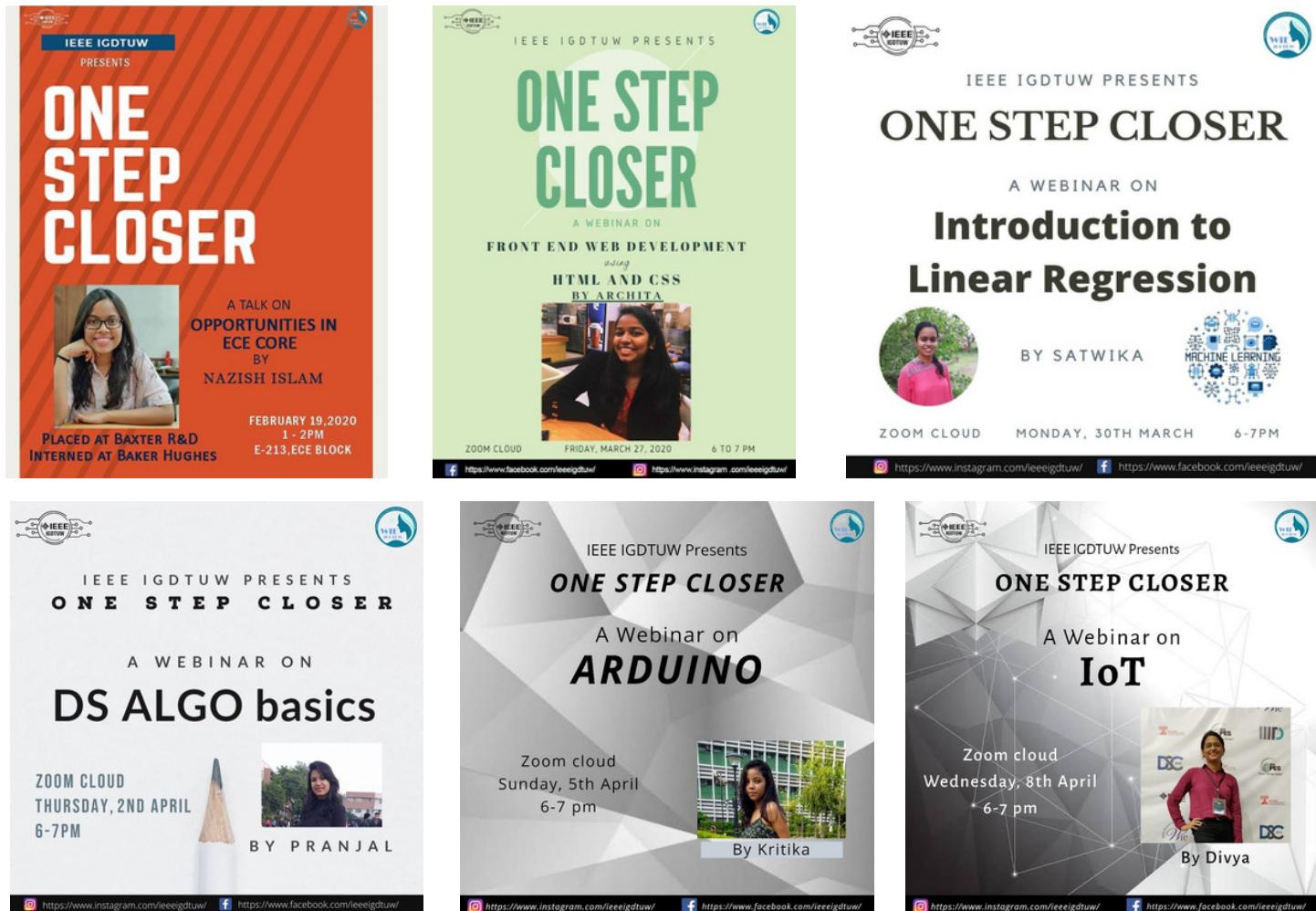
Sparsh is a social volunteering and outreach program organized each year. We invited 2 members from an NGO, Kilkari Rainbow Home, to give a brief about their mission and vision towards empowering children and education with the support of IEEE IGDTUW.



8. "One Step Closer" Webinar series (19th February, 2020 - 8th April, 2020)

The following webinars were held as a part of this series:

- Webinar on Opportunities in ECE Core by Nazish Islam (4th Year ECE student in IGDTUW) on 19th February, 2020
- Webinar on Front end web development using HTML and CSS by Archita Varshney (2nd Year CSE student in IGDTUW) on 26th March, 2020
- Webinar on Introduction to Linear regression by Satwika Bhattacharjee (3rd Year ECE student in IGDTUW) on 29th March, 2020
- Webinar on DS Algo Basics by Pranjal Mittal (2nd Year ECE student in IGDTUW) on 2nd April 2020
- Webinar on Arduino and TinkerCAD by Kritika Kumari (2nd Year ECE student in IGDTUW) on 5th April 2020
- Webinar on Internet of Things by Divya Pant (2nd Year ECE student in IGDTUW) on 8th April 2020.



9. Logothon (4th - 8th April, 2020)

IEEE IGDTUW and WIE IGDTUW in collaboration with IEEE Delhi Section organized the pre-event of WIEMPOWER 2.0 : LOGOTHON - a logo designing competition. The participants had to design the logo of WIEmpower which is an epitome of Women Empowerment.



10. WIEmpower 2.0 (17th - 21st April, 2020)

It was organised in association with IEEE Delhi Section and WIE AG Delhi Section.

Sponsors of the Event:

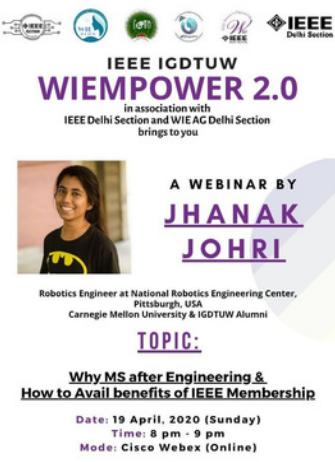
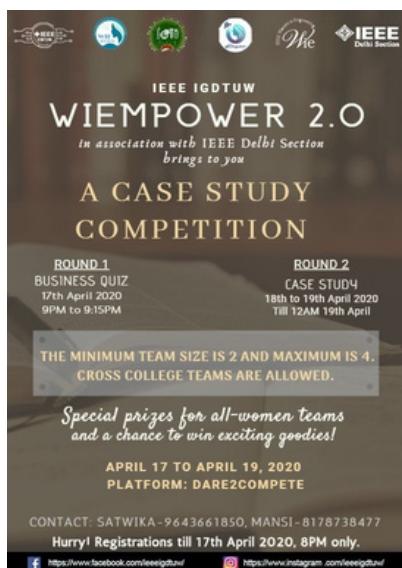
- Microsoft Student Partners
- Balsamiq
- Creative Tim
- ETI Labs Pvt. Ltd.

Competitions organised:

- Case Study Competition
- Code-O-Fiesta (online coding competition)

Speaker Sessions:

- Transforming Governance for Inclusive Society by Ms. Charu Verma
- Why MS after Engineering and How to avail benefits of IEEE Membership by Ms. Jhanak Johri
- Positive Attitude - Secret Ingredient of Success by Ms. Deepshikha
- Why women will be leading technology in the future by Mr. Saurabh Ubweja



EVENTS CONDUCTED BY IEEE IGDTUW IN THE TERM OF 2020-21

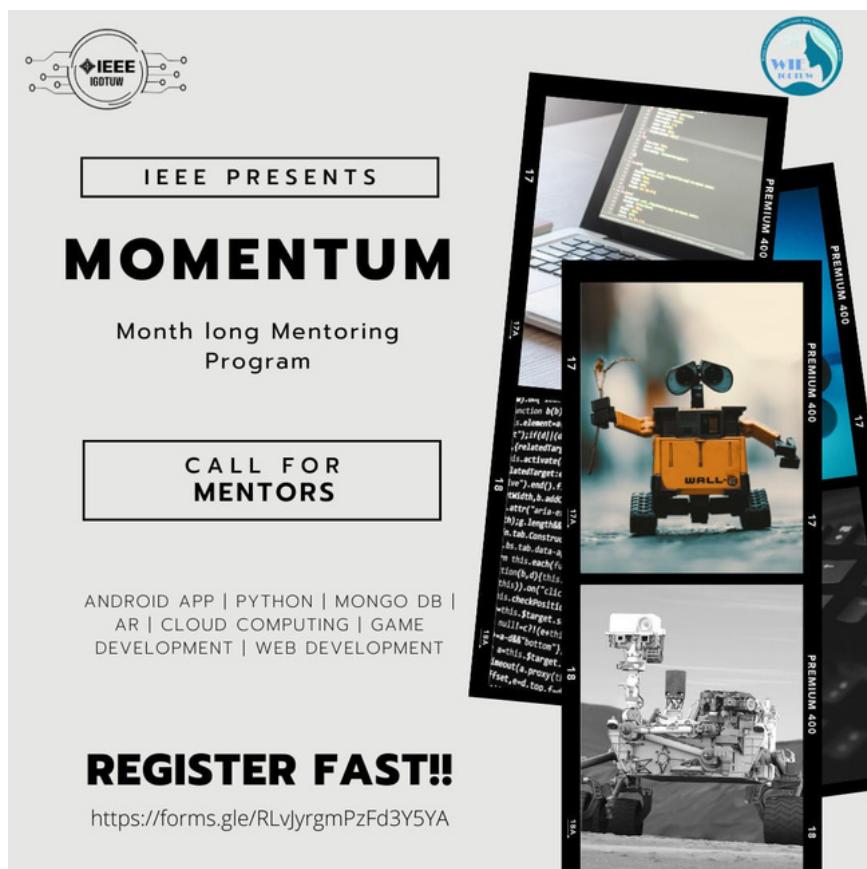
IEEE conducted a plethora of webinars, events and competitions in the term of 2020-21 for the student community in order to inspire and empower them. The following is a glimpse of some activities that imparted valuable skills and provided the right guidance to brighten and enlighten their minds.

1. Momentum 2.0 (February - March, 2021)

This was a month-long mentoring program full of learning and applying skills. It is an initiative to bridge the gap between the hierarchical study levels in our system with the aim being to bring experienced seniors closer to juniors and help everyone grow together.

The Tech circles chosen for the mentorship program were:

1. iOS App Development
2. Data Structure and algorithms
3. Robotics
4. Alexa Skill Development



2. WIEmpower 3.0 (10th - 18th April, 2021)

WIEmpower 3.0 comes with the vision to provide a platform to aspiring Women in Tech to boost their confidence and inspire them to follow their academic interests to a career in STEM and Entrepreneurship through various events and motivational talks. It aims to increase awareness amongst everyone regarding Women in Tech.

IEEE IGDTUW organized the 3rd edition of its flagship event, WIEmpower 3.0, in collaboration with IEEE Delhi Section Student Network.

WIEmpower 3.0 was conducted on 2 weekends (10th -11th April, 2021 and 17th - 18th April, 2021) in a fully online mode. Several enriching events were conducted such as:

Competitions:

- Code-o-fiesta 2.0 (Coding Competition) which was organized on 10th April, 2021
- WIEgnite (Hackathon competition) which was organized from 17th - 18th April, 2021
- Themes for the WIEgnite Hackathon were chosen to be: Women safety, Women empowerment, Tackling violence against women, Cyber-crime, Women Health, Upskilling women

Workshops:

- "Resume Building Workshop" by Ms. Shumaila Anees on 10th April, 2021

Speaker Sessions:

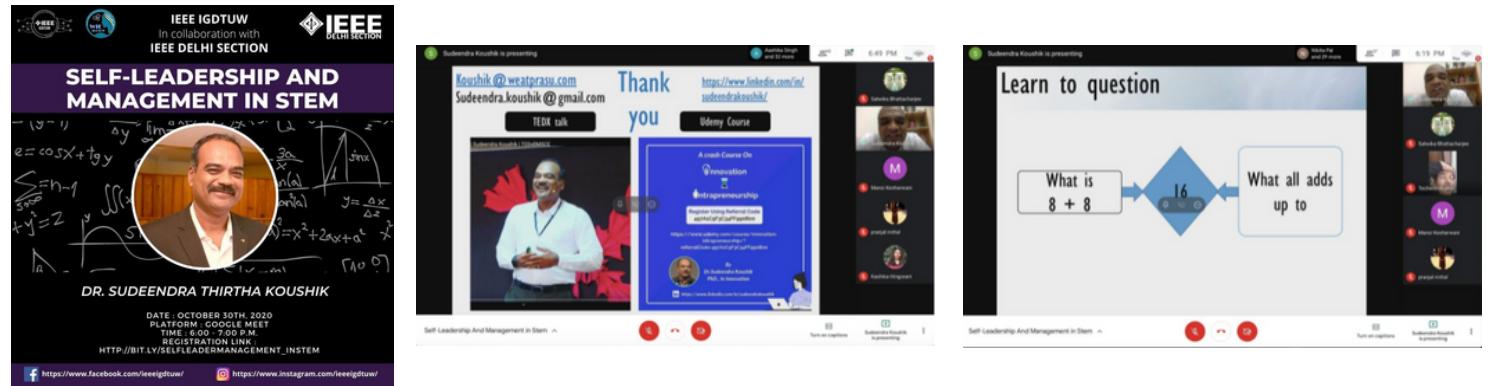
- "How to pursue career in Indian Air Force" by Ms. Maitrayi Nigam on 10th April, 2021
- "How to balance career with family life" by Dr. Jasdeep Kaur Dhanoa on 11th April, 2021



3. Session on ‘Self-Leadership and Management in STEM’ (30th October, 2020)

IEEE IGDTUW, in collaboration with IEEE Delhi Section Student Network, organised this session to elucidate the right approach needed for making a foothold in STEM fields. The speaker for the session was Dr. Sudeendra Thirtha Koushik who is a PhD in innovation and is an accomplished innovator, TEDx Speaker, Entrepreneur and Keynote speaker.

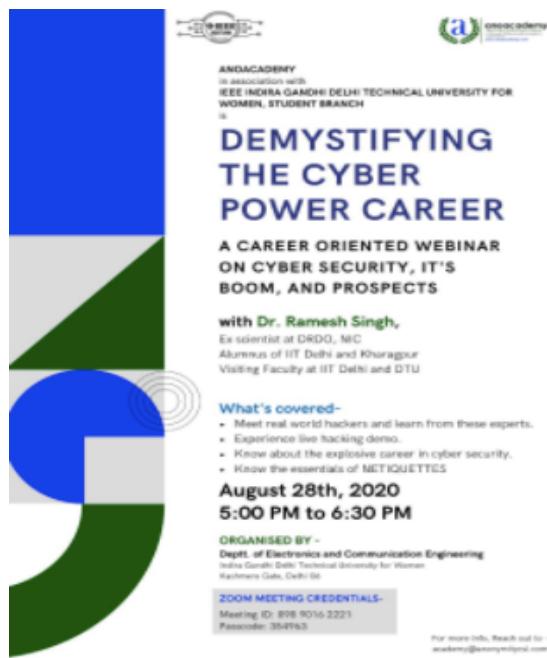
Dr. Koushik is the chief Innovator and Co-founder of PRASU while being a part of ExCom IEEE Bangalore, Co-Chair IEEE Ad-hoc Committee, Co-Chair IEEE SYWL Congress Asia Pacific 2016 and Director of Founder Institute Bangalore.



4. Webinar on ‘Demystifying the Cyber Power Career’ (28th August, 2020)

In association with ANOACADEMY, IEEE IGDTUW organised a career-oriented webinar on ‘Demystifying the Cyber Power Career’. It covered interaction with real world hackers, a live hacking demo, information about explosive career opportunities in cyber security and the essentials of NETIQUETTES.

The speaker for the session was Dr. Ramesh Singh - an Alumnus of IIT Delhi and Kharagpur. He had been working as a scientist at DRDO. Currently, he is a visiting faculty at IIT Delhi and DTU.



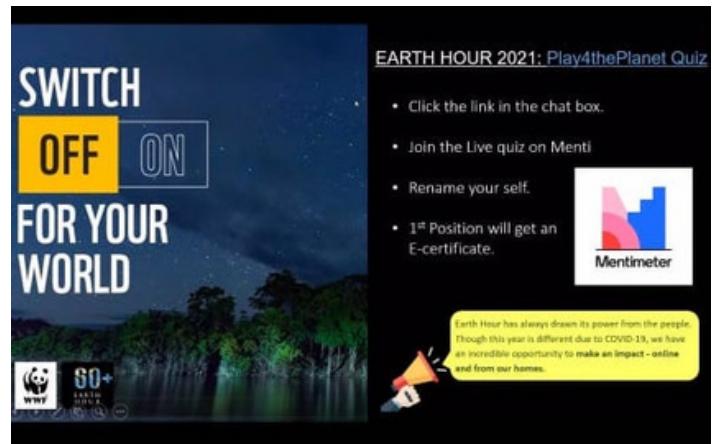
5. Membership Drive and Orientation (14th September, 2020)



6. Social Outreach Webinar on Earth Hour 2021 (18th March, 2021)

IEEE IGDTUW, in association with WWF-India, conducted a social outreach webinar on Earth Hour 2021. The webinar aimed at creating awareness on Earth Hour followed by a fun quiz.

The webinar also discussed the programs and strategies adopted by WWF-India to encourage participation in Earth Hour'21. Ms. Shreya Rastogi, a WWF India volunteer, was the speaker for the webinar.



7. IEEE Week 5.0 (30th March - 2nd April, 2021)

The IEEE week was celebrated by conducting a week-long learning series comprising of the following webinars:

- Session on 'How to bag Hardware Placements' (30th March, 2021)
- Session on 'How to bag Off-Campus Placements' (31st March, 2021)
- Session on 'How to bag Non-Tech Placements' (1st April, 2021)
- Session on 'How to bag Software Placements' (2nd April, 2021)



8. Webinar on 'How to build the fastest track for a Global Career in Cyber Defence' (26th March, 2021)

IEEE IGDTUW and LeanIn IGDTUW, in association with WhizHack Technologies Pvt. Ltd., organized a webinar on "How to build the fastest track for a Global Career in Cyber Defence". The webinar covered aspects of Cybersecurity and the career opportunities.

It also elaborated on India's only Dual Certificate Program by IIT Jodhpur and Ceebin Israel. The expert speaker was Prof. Sumitra Sandhya, Associate Professor, Deptt of Computer Science, IIT Jodhpur with the presenter as Kaushik Ray, COO, WhizHack Technologies Pvt. Ltd.



9. Webinar on IEEE & its Benefits (20th July, 2020)

This session was conducted by IEEE IGDTUW along with eight other SBs in collaboration with IEEE Delhi Section. It focussed on how the IEEE membership offers access to technical innovation, cutting-edge information, networking opportunities, and exclusive member benefits. The speaker of the session was Prof Prerna Gaur, currently the Chairperson of the IEEE Delhi Section.



10. Intern Prep Talk Webinars

The webinars aimed at guiding the students in bagging an internship at a reputed software and hardware companies. The speakers Mahima Kataria and Satwika Bhattacharjee shared their experiences and valuable tips that could help students bag software internships. Mansi Kesharwani and Disha Sharma guided students regarding internships at hardware companies.

IEEE IGDTUW

Brings to you a WEBINAR on
How to bag Software Internship

By
Satwika Bhattacharjee Mahima Kataria

- ECE - Final year student
- Product Engineering Intern at SAP
- Mentor at CodonFest'20 - by Skillship Foundation
- Machine Learning Enthusiast

- CSE - Final year student
- Summer Intern at SAP
- UAEels Instructor for DBA in JAVA
- Android & Deep Learning Enthusiast

On 27th July 2020, Monday
Time : 11:00-11:30 a.m.
Registration Link : <https://bit.ly/2OYquBK>
Contact : Esha - 9643190109, Pragati - 8851259676

<https://www.instagram.com/ieeeigdtuw/> <https://www.facebook.com/ieeeigdtuw/>

IEEE IGDTUW

Brings to you a WEBINAR on
How to bag Hardware (Core) Internship

By
Mansi Kesharwani Disha Sharma

- ECE - Final year student
- Bagged-on Campus Internship at Eaton
- Got selected for Google Build for Digital India
- Present project at Google office - Gurugram

- ECE - Final year student
- Software Engineer at Microsoft
- Co-founder at QuickSort

On 29th July 2020, Wednesday
Time : 06:00-07:00 p.m.
Registration Link : <https://bit.ly/3g328D8>
Contact : Esha - 9643190109, Pragati - 8851259676

<https://www.instagram.com/ieeeigdtuw/> <https://www.facebook.com/ieeeigdtuw/>

IEEE IGDTUW

Presents a Webinar on
How To Ace Placement Interviews

Ishani Pandey
IGDTUW Alumni
• Software Engineer at Microsoft
• Co-founder at QuickSort

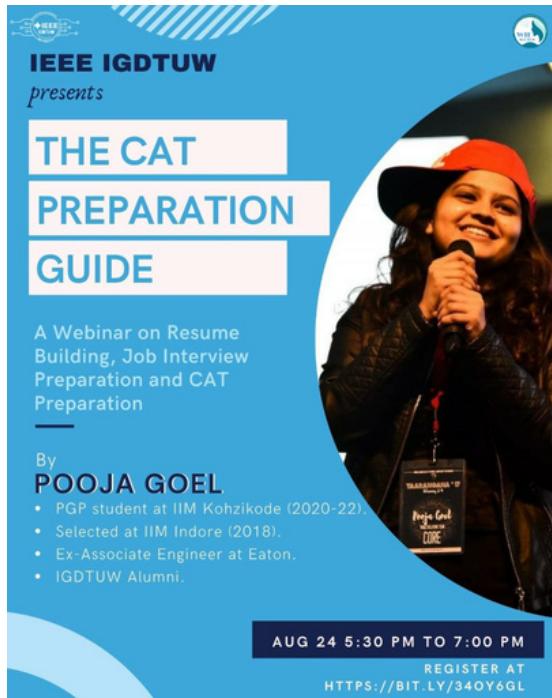
Date: 01-08-2020
Time: 5:00 p.m.
Registration Link: <https://bit.ly/3hKLxEq>

Contact
Esha : 9643190109

<https://www.facebook.com/ieeeigdtuw/> <https://www.instagram.com/ieeeigdtuw/>

11. The CAT Preparation Guide (24th August, 2020)

An interactive webinar that covered resume building, job interview preparation and CAT preparation. The speaker was Ms. Pooja Goel, PGP student at IIM Kohzikode (2020-2021). She was selected at IIM Indore in 2018 while studying in college and is an ex-associate engineer at Eaton. She is an IGDTUW alumni.



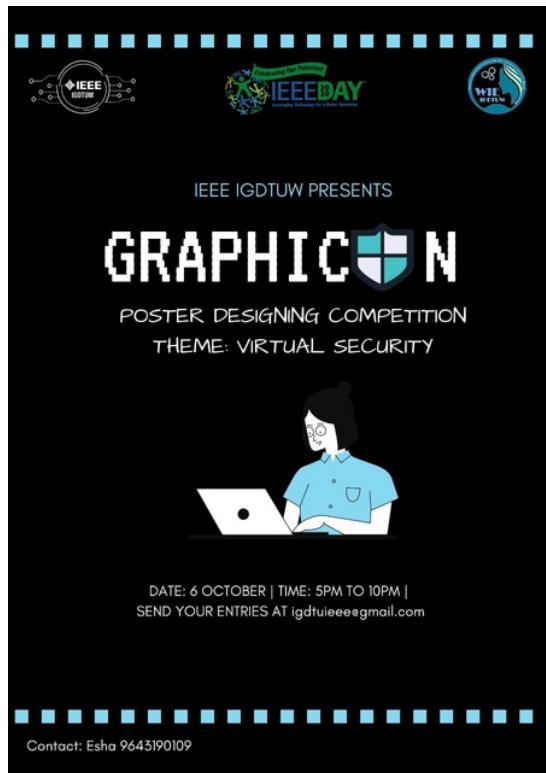
12. Become Your Own Boss - Webinar on Startup (29th September, 2020)

Ms. Avishi Goyal and Ms. Kirtika Malhotra - MCA Students of IGDTUW and Founding Team of the Startup: "PARKING HERO", gave an overview of what it takes to start your own company, what struggles one faces along the path and how to overcome them.



13. Graphicon: Poster Designing Competition (6th October, 2020)

On account of IEEE Day, a Poster Designing Competition was conducted online. The theme chosen was 'Virtual Security'



14. WIE Talk on Research Paper Writing (5th December, 2020)

The WIE Talk briefed the attendees about the process of publishing a research paper along with some useful tips. The speaker of the webinar was Ms. Pearl Pullan and she has published three undergraduate research papers with IEEE.



XX

Several other resourceful events were hosted by IEEE IGDTUW, such as:

Progate Learning Weekend (3rd - 5th July, 2020)

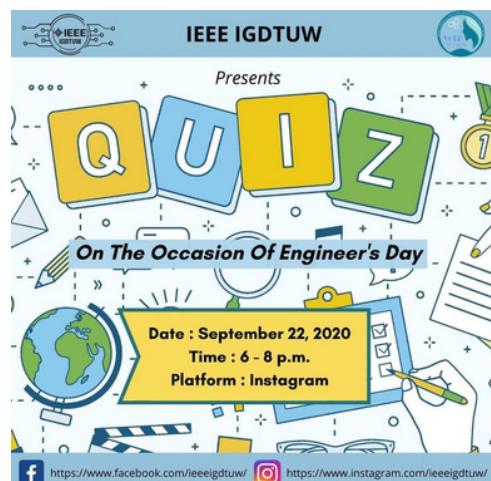
Webinar on Career Enhancement through Project Based Learning (8th August, 2020)

Learn with Innerve - Upskilling ECE + Placement (12th September, 2020)

Quiz on the occasion of Engineer's Day (22nd September, 2020)

Virtual Scavenger Hunt and Freshers' Welcoming Session (25th December, 2020)

Webinar on 'Drones for Social Impact' (10th February, 2021)



LET YOUR SUCCESS BE HOLISTIC

Are you so caught up in the rat race, the scramble for internships and top-grades, the endless desire to enhance your extra-curricular profile, to ace your exams that you have forgotten how to live? To pause and smell the roses? To connect with friends and family? To extend a helping hand to someone in need? If yes, then know that you are not to blame. The fast-paced, success-at-any-cost, me-first culture that we live in, applauds those who unceasingly run on the treadmill of ambition, success and achievement; and we become accustomed to this applause, driving ourselves even harder, often at the cost of our physical and mental-well-being.

Educational institutions are not immune to this culture. This is best illustrated in a scene from the movie, Three Idiots, where Aamir Khan gives a class of engineering students a 30-second pressure-test to find the meaning of two words he scribbles on the board. As the clock ticks, the students immediately bury their noses in the textbooks and frantically look for the two words. Even the Principal (Boman Irani) joins them in the mad word-hunt, desperate to succeed in 30 seconds! When the time is up, the students stop, appearing stressed and disappointed. Looking at their faces, Aamir remarks, 'When I gave you this question, did any of you wonder if you'll learn something new in today's class; something fun? No - you just surrendered to a mad rat race! Even if you succeed in this fashion, what's the point? Will your knowledge increase? No. Only the pressure will increase. And this is a college, not a pressure cooker! The fear of a hunter's belt (chabuk) makes even a circus lion squat in a chair! But such a lion is called 'well-trained', not 'well-educated'.'

In this scene, Aamir is implying the systemic bias for high-pressure, GPA-focused, rat race that devalues creativity, student well-being and learning that's joyful. And the distinction he makes between a 'well-trained' and a 'well-educated' person is a noteworthy one. Mere training of the mind, or even mastery in a subject or a skill, cannot be equated with 'education', which ought to be holistic in its endeavour and aimed at harvesting – competence, creativity and character of the student. The lack of a simultaneous emphasis on creativity and character (the ethical core of an individual) – the values of honesty, integrity, kindness, generosity, lack of prejudice, empathy, self-awareness, respect for others, virtuous work ethic, among others – often produces experts who are knowledgeable but lacking creativity, ethics and integrity in personal and professional lives. Such a person may be described as 'well-trained' but cannot be described as 'well-educated'.

The question to ask is: which description are we aiming for - 'well-trained' or 'well-educated'? Is the Aamir Khan of Three Idiots depicted as a 'well-educated' person in contrast to his 'well-trained peers'? Let's see: he knows himself; is unafraid to speak his mind; goes beyond textbooks to truly understand the everyday, practical application of theoretical concepts; aces his exams; is a compassionate friend, ever-present in the joys and sorrows of his friends; fights for injustice around him (confronts the Principal after a student's suicide); is humble, fun-loving and creative; and last but not the least, encourages his friends, Farhan (Sharman Joshi) and Raju (R. Madhavan) to discover their authenticity and calling in life such that Raju musters the courage to follow his passion in photography at the end of his engineering degree.

ABOUT THE AUTHOR



Agrima Bhasin

Agrima Bhasin is a Visiting Faculty at the Indira Gandhi Delhi Technical University for Women. She teaches Human Values and Professional Ethics.

Our impression of Aamir from the movie then is of a student who is gifted and successful both in the curriculum of engineering and in the ‘curriculum of life’! A student whose success is holistic. What does ‘holistic’ success mean for us? It means to not only chisel one’s competencies in the field of engineering but to also ‘engineer’ one’s character, one’s values, to nurture one’s relationship with friends, family, nature and the wider community, to pause and smell the roses (in other words, to slow down when needed and cater to one’s well-being), to take an honest stock of the impact the rat race has had on one’s psyche and health, to cherish one’s uniqueness and indulge in one’s favourite hobbies, to offer one’s empathetic ear to a friend, family member or stranger in need, to reflect on the suffering an unprecedented COVID-19 virus has caused and do our bit to alleviate someone’s suffering, and to count one’s blessings and express gratitude for the miraculous breath of life in one’s body.

“Another term for such holistic pursuit of success is ‘emotionally-intelligent’ living. And the future belongs to the emotionally intelligent.”

Another term for such holistic pursuit of success is ‘emotionally-intelligent’ living. And the future belongs to the emotionally intelligent. The current Pandemic, and its sudden disruptions in our personal, social, academic and professional lives, is a fitting illustration of how an attitude of self-care, love, empathy, compassion, perseverance, endurance, patience, generosity, sharing and caring, resourcefulness and collaboration is the real vaccine that has inoculated us against the Corona-storm. No measure of subject-expertise or high IQ (Intelligence Quotient) in a discipline can keep us afloat if we do not consciously ‘engineer’ these attitudes within us. On this note, it is my hope that you will reconsider the rat race and walk your own path of holistic success, which requires harvesting your competence, character and compassion in equal measure.



INTERNATIONAL INTERNSHIPS- THE WHATS, WHYS AND HOWS

International internships- the term invokes equal parts awe, inspiration and confusion. The first few questions anyone is bound to ask are:

What exactly is an international internship? How do I apply? Where can I apply? What are they looking for? Is my profile good enough? How will I finance it? How will it benefit me?

I was asking myself the same questions at the end of my third semester. I had heard of many different international internship programmes, but I didn't know how and where to start applying.

Through this article, I'll attempt to take you through my entire internship experience and hope that it helps those of you who are looking to apply for international internships in the future.

1. How did I discover this opportunity?

The first time I came across this programme was through an email circulated on our university email ids. It outlined the entire programme, who they were looking for, how competitive their selection process was and how the programme would be conducted. Corporate Gurukul also conducted a session in our University premises about the programme.

2. The application and selection process

In January 2019, an application form was released which would serve as the basis for selection into the programme. The questions on the form pertained to

- i. Present cumulative college grades/marks/percentage
- ii. Grade in any course of probability or statistics taken in college thus far
- iii. Knowledge of Python
- iv. Descriptive SOP- why you want to pursue this programme, what you've done thus far to make you a good candidate, how will you use your learnings etc.

While I had filled the form, I had little to no hopes of getting selected. I had very preliminary knowledge of Python, having taken just one online course to grasp the basics till then. (I was a PCMB student in school, so programming was fairly new to me at that point, with C++ the only programming language in my arsenal.)

I believe what helped my selection was my SOP (Statement of Purpose) and my grades in college.

ABOUT THE AUTHOR



Anusha Vajpayee

Anusha Vajpayee, who is an IGDTUW alumni of the 2021 batch of the Department of Information Technology is currently pursuing MBA from IIM Calcutta.

She was an Academic Intern (June 2019) in:

1. Big Data Analytics using Artificial Neural Networks, @School of Computing, Strategic Technology Management Institute (STMI), National University of Singapore (NUS)
2. Big Data and Hadoop System Administration @Hewlett Packard Enterprise (HPE), Singapore (as part of Global Academic Internship Programme (GAIP) conducted by Corporate Gurukul)

One day a few days after filling the form, I received a phone call from the GAIP team that my application form was approved by the India team and they wanted to re-confirm my interest before sending the application to Singapore. I re-confirmed my interest, and a few days passed, during which I had mentally prepared myself for a rejection after looking at the selection statistics. One morning in March, however, I received a mail with the subject: Anusha Vajpayee-Offer Letter for GAIP 2019. I was ecstatic to say the least! I could hardly believe that I had actually made it through the entire selection process!

3. The pre-internship preparation

Once the initial surprise and excitement wore off, it was time to consider the offer practically. There were two aspects to my internship preparation: academic and non-academic.

For the academic part, we were provided a fairly comprehensive list of things we needed to study, along with some trainings conducted by past interns. The list, though initially daunting, was nothing compared to the non-academic one.

I mean it when I say, learning Python, R, probability or statistics seems like a small task when you compare it with learning to live by yourself for a month in another country, when you have no hostel experience to begin with (day scholars, give me a cheer!). While it was fun to plan everything from food to essentials to documents, the planning involved was the most extensive part of the process.

(P. S. Two things to never underestimate: Singapore weather and the importance of snacks :p)

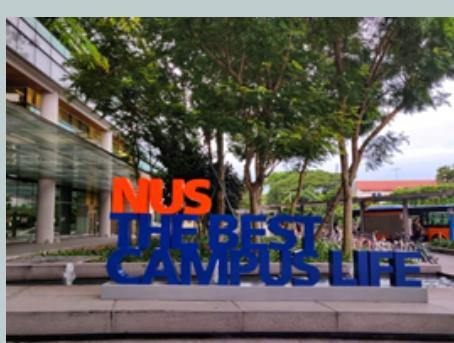
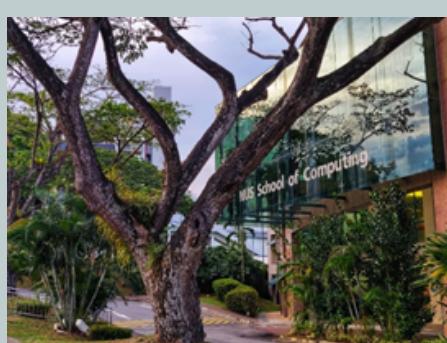
“ If you want to do it, don’t pay heed to what others are doing/saying ”

4. The internship experiences

The internship was broken down into two trainings, one by NUS and the other by HPE. The pattern was classes/trainings, small projects, quizzes and tests, and one final group project that we had to present to our instructors at the end of the training.

My team had people from different varsities spread across India, and my interaction with them: learning more about their experiences and expertise, greatly helped me in honing my own skills.

While the weekdays were mostly packed with work, assignments and to-do lists, we had our fun at meal times and weekends. We were living in the NUS campus accommodation, and weekends were the time when we ventured out to explore Singapore. I did almost all the touristy things, and made some amazing friends in the duration of my internship. The bonds I made there are some I still hold very dear to me.

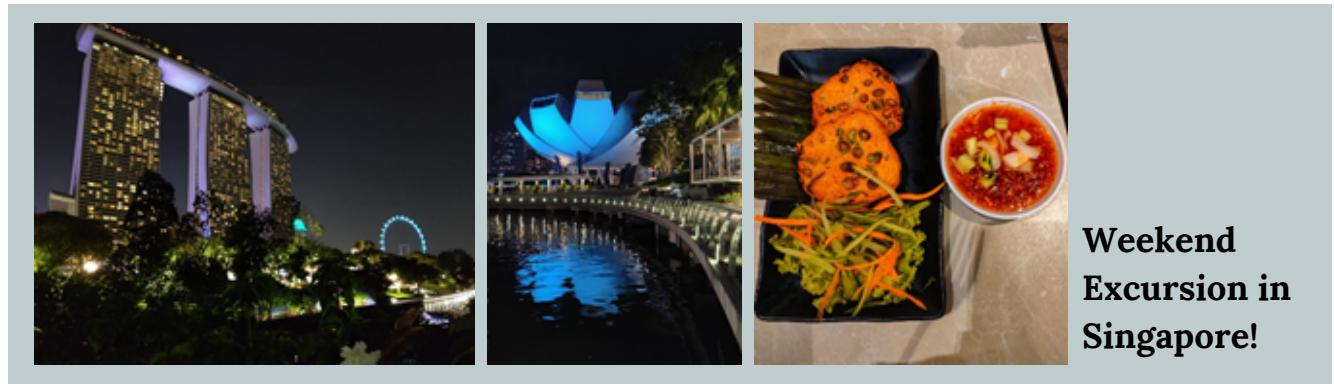


NUS CAMPUS

5. The final projects and grades

Coming back to the programme, both parts of the training required us to present our final projects, post which we were awarded our final grades. One project in each training was awarded the best project, and based on the final scores and grades, scholarships were awarded to students. I also received a scholarship for being among the top 10% of academic interns that summer.

On the last day of our internship, we had a big bash where we were felicitated and said our final goodbyes to friends, teachers and mentors who had made the whole experience memorable for us.



6. My learnings

The time I went for this internship, most people were focusing primarily on coding because of its importance in the coming 2 years (3rd and 4th). Even I felt apprehensive about the fact that I may lose out on some crucial time and may lag behind my peers by going on this internship.

But I also believed that this internship would provide me the exposure very few alternatives could offer, and the that there would be no better time to go for it.

Having taken that decision in 2nd year was one of the best decisions of my life. I believe that this internship gave me **perspective** in more ways than one. It provided me **a more global outlook to my education**, while sensitising me to plethora of **opportunities available in the world of STEM**.

It also exposed me to how computer science is taught and studied in an atmosphere different from my own, and how the **pedagogy and student life differs from what I have experienced**.

Personally, it also gave me the confidence and self-belief I needed at that point. So now, if any of my juniors or peers ask me what I would say to someone applying for international internships, there are just 3 things I would offer:

1. **Be patient, rejections are not the end of the road.**
2. **If you want to do it, don't pay heed to what others are doing/saying**
3. **Believe that you can make it.**

A LETTER TO ALL THE BUDDING WOMEN ENGINEERS

For several years now, my email signature has been a quote by Coco Chanel. It reads, “In order to be irreplaceable, one must be different.” It may seem odd that I start a letter to engineers with a quote from a fashion icon, but bear with me. The entirety of this letter will address that oddity. So let us start again, and this time, with an opening greeting of some sort!

Dear reader,

I'm as excited to write to you as I am nervous. While on one hand, I have so many things to say, on the other, I am not sure how much to say. I do find some common ground between us, and as you might have guessed, it is our university. I've been there in the past, and you are there right now. And we can always talk about how different our experiences will have been once you have graduated, but what I want to talk about are the similarities in our time at IGDTUW - our shared experiences.

In 2013, I stepped into a college to be an engineer. I had no idea what to expect. I felt lost and directionless. If you are new to the campus, you probably feel the same way. In fact, I must admit that you may feel just as lost even when you are about to graduate. But isn't that what life is? It is uncertain that way, and this pandemic has taught us so, better than anything else. However, you will be certain of one thing by the time you graduate. It is that girls can do whatever they put their mind to, and make it all look effortless while they do it!

They will be building cars, they will be starting their own businesses, they will be excelling in almost all the STEM fields and they'll be having a blast with Hypnotics and Rahnuma all the while. If you have been overwhelmed with coursework, side projects, hackathons, future plans, placements, exams, assignments and whatnot, take a step back with me and look at what an incredible opportunity you have in front of you!

You may have already heard of the gender bias and gender gap in STEM fields and how the male to female ratio is disproportionately high in engineering. You may have heard “engineering isn't for women”. You may have heard “women are not good at mathematics and science”. You may have also heard, “women should do office-based jobs”. And yet, you and all the other girls in the university are crumpling these stereotypes one day at a time. If you hadn't already thought of yourself as a wonder woman, you should now! Girls like you who take the engineering fields head-on and show the world how brilliantly you can navigate it, open doors for an unimaginable number of women who don't have the same support system as you do.

Coming from the furthest corners of the country and from as diverse backgrounds as there can be, each one of you brings a fresh perspective to your field and you should be proud of it. And that was the motivation to start with the Coco Chanel quote. You and your work are too valuable to be discouraged by social norms and baseless stereotypes. You need to understand this and reinforce this belief in your mind every day.

ABOUT THE AUTHOR



Rachayita Giri

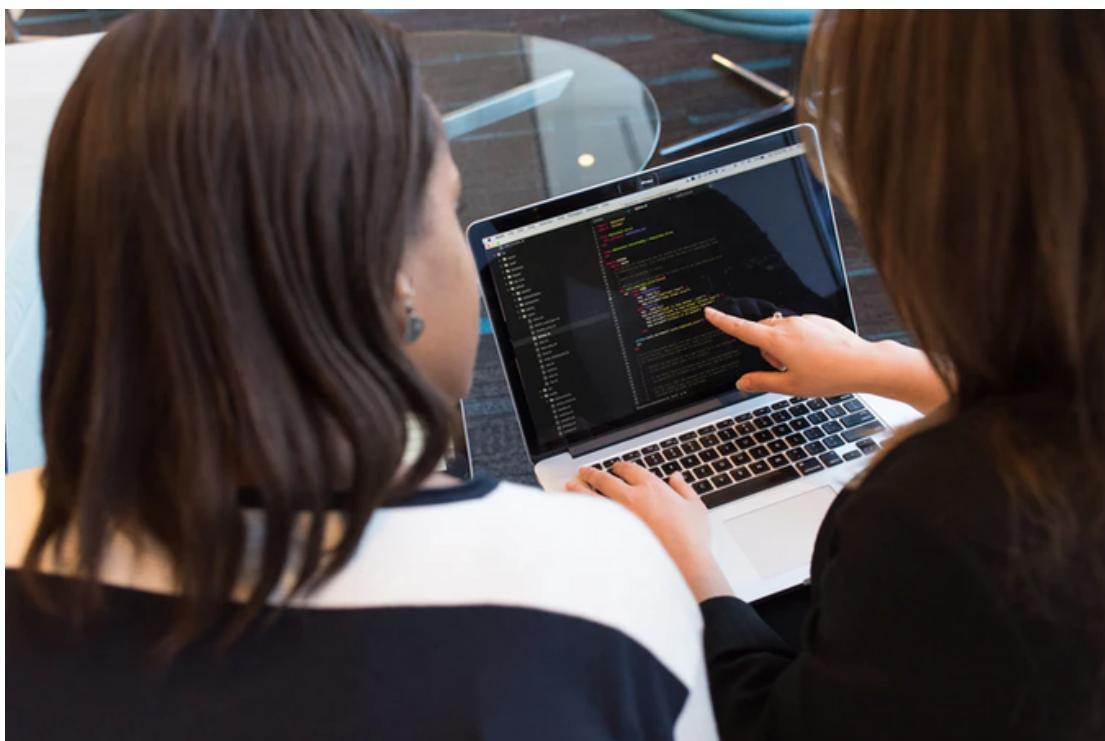
Rachayita Giri is the Data Science Lead at Mentra and a Sr Technical Consultant at Zuora. As an engineer, she strives to be a part of social change. She graduated from IGDTUW in 2017 and later received her Masters in Computer Science from California State University Long Beach.

You will realize how important the suggestions, support and ideas of your peer group are but maintain your individuality and your personality as you go on. Assimilate all the lessons you learn and build a life for you that you have always dreamt of. Do you know why? Because you can. Because you had the courage to join an institution full of strangers to pursue a complex discipline, to tackle the problems that come with it and hey! Because you are going to be an engineer!

“ Girls can do whatever they put their mind to, and make it all ”
look effortless while they do it!

While I move to the closing of this letter, I must reiterate the fact that not all women have the kind of access to education that you have, so while you are busy being an awesome engineer, spend some time moulding the future generation of women engineers who can uplift others just like you will.

I leave you with warmth, some virtual hugs and hopefully, a whole lot of motivation to put in the effort to excel!
(But hey! In the meantime, don't miss those street plays, dance performances, mini AUD-fests and canteen ki Maggi!)



WHAT IGDTUW TEACHES YOU

I distinctly remember my first day at IGIT (yes, that's what we still call it). It was bittersweet.

As I walked in through the main gate that day, I realised I was leaving a shattered dream behind - that coveted IIT tag. What lay ahead was filled with the shrill voices of I-don't-know-how-many girls. I almost did a U-turn to go back home. You see, I've never been great with girls. Up until then I had a total of one girlfriend. Nonetheless, I soldiered on.

Cut to our graduation day and I couldn't believe how four years had passed us by. The wide-eyed nerd had managed to make a bunch of great friends, secure a coveted placement and was now headed to the B-school of her dreams.

Looking back, I wouldn't trade them for anything. Thank you Srinidhi for making me revisit them!

Let me now put my wisdom-tinted glasses on as I share the life lessons that IGIT or IGDTUW taught me:

1. Failure, what's that?

Back in college, we never gave up. I think we learnt this lesson early on in our first-year workshop.

I remember all 60 of us CSE students walking into that big dark hall. Our professor held two shiny interlocking pieces of metal in his hand. The task was simple - replicate those pieces.

It was awkward at first. Sometimes the angle of the saw was not right, sometimes my hands slipped with sweat. I remember asking myself, Why on Earth do we need to do this? But as we persisted, something changed. I could see a dent on the metal. That dent soon became a cut. By the end of the class, I had two shiny pieces of metal that fit perfectly!

That day, I rediscovered the value of not giving up. What seems like failure is just an invitation to work harder. I have accepted that invitation many times since.

2. Knock. Knock. Who's that? Opportunity!

Another lesson that IGDTUW taught me was this - Opportunities don't knock twice.

I remember, Microsoft had finally agreed to come for recruitment. It was one of those dream companies for everyone. I cleared round after round of technical tests until the final list of 20 interviews was announced. 13, 14, 15...the list of names grew yet I didn't hear mine. Until the very end.

#20 Maanya Gupta

Phew!

Interviews started serial number wise at 8 AM the next day. I remember running from the library to the computer lab countless times - Did they get the people they were looking for? Are the interviews still on?

My turn came at 8:30 PM. Straightening my shirt, I went in trying to remember everything that I had studied. And I gave it my best shot. I was grilled not just on technical skills but also on my interpersonal skills. That interview lasted for a little over an hour. By the end of it, I had the job. I had grabbed the opportunity, just like this college had taught me to.

ABOUT THE AUTHOR



Maanya Gupta

Maanya Gupta an alumna of IIM Ahmedabad and IGIT, is founder of 'The Tuppence', a digital magazine that uses stories and activities to help children learn critical life skills that are often missed by our schools.

3. The canteen that was no more

Our first year on campus, we had a lovely canteen behind the basketball court. While classes felt like school, this place felt like college. I remember spending countless afternoons here chomping down on egg fried rice. Then the unthinkable happened. The canteen shut down.

It was after a year that one kiosk opened up near the photocopy shop. It started selling just chai and biscuits. Then came the Maggi, samosas, patties, pasta...you see where I am going with this?

What was decimated by the end of a paper contract soon spread its wings again. It came up in a different avatar. It was ours and we loved it. I think that's when I really learnt not to fear adversity. I realised that I will be OK, no matter what. Needless to say, this is one of the most valuable skills that IGDTUW taught me.

“ Opportunities don't knock twice. ”

4. Let's dance

I love dancing. That's why auditioning for Hypnotics was a no-brainer. On the day of the audition though it felt like the entire batch wanted in!

I don't know what worked - plain old luck or genuine talent. Whichever it was, I got through and that's when the tough part started. The entire team juggled endless classes and assignments with demanding practice sessions. We struggled with constant body aches and faced parents who sometimes disapproved of all the dancing. We pooled in money first for a choreographer, then for our costumes and make-up. We travelled to the ends of the city to participate in competitions.

After more than half a decade, it doesn't matter how many of those competitions we won or lost. What matters is that we learnt how to make time for the things we love. And trust me, this ability to stretch the 24 hours given to us each day is what is helping me give my best to my start-up today!

5. Be a langoor

Last but not the least, IGDTUW helped me repair my confidence that had taken a beating after JEE. Actually, it was the langoor on campus who helped me. The way it would strut down the road, shooing away monkeys and students like it owned the place, left me laughing and mesmerized.

Even today, whenever I need a boost while entering an unfamiliar meeting room, I think of that langoor. That instantly adds a dose of confidence to my step!



ALL ABOUT THE TWITTER INTERVIEW EXPERIENCE

It was around in January 2021 when Twitter Inc visited our campus for the first time for Full-Time recruitment. An important point to highlight is, only the Computer Science branch (CSE) students were eligible for the hiring process.

The hiring was initiated with a Hackerrank test. It was a 1.5 hr test with 2 coding questions. The first one was an easy question. It was simply an implementation of a basic math concept. I got all the test cases passed. The second question was a Dynamic Programming question. It was a moderate to difficult level question. I got 60% of the test cases passed. 6 students from the campus were shortlisted for the next round.

The next was a one-on-one interaction with a senior software engineer. It was purely based on Data structures and algorithms. I was asked 3 DSA questions. The first question was to count the frequency of different characters in a string. I used hashmap and completed the explanation and coding part in 10 min. The next question was also a simple question. I completed the code in the next 20 min. The third question was based on Tries. I explained my approach with a proper dry run on different cases. The interviewer seems satisfied and asked me not to code. It took around 1 hour of discussion and the interviewer directly told me that the overall performance was good and he will be sending positive feedback.

The next 3 rounds were onsite-round held online due to covid 19. These 3 rounds were held on same day without any gap. An important highlight is that Twitter conducts its onsite rounds with 2 interviewers in one interview.

Here, the first round was completely based on theoretical CS concepts. I was asked basic to advance level questions on Operating System, Networking, Object-Oriented Programming, and Databases. The interview exceeded the one-hour limit but overall went fine. Although I wasn't able to answer 2-3 questions, the interviewers seem to focus more on what I know.

The next round started instantaneously. It was a system design round. The question was to design an API to run a function based on user requests. There can be multiple users and one user can send multiple requests. I discussed the concept of Load Balancing, the overall architecture and then code the solution. The interviewers asked a few more questions about processes and scheduling.

The third round started after a gap of 20 minutes. It was the managerial round and completely non-technical. I was asked questions based on my projects, resume, and other co-curricular interests. The prime focus was on skill matching of the candidate and the company.

Overall, the process went really smooth and the result was declared in 2 weeks.
Really excited to be a #tweep!

ABOUT THE AUTHOR



Divya Chakarwari

Divya Chakarwari is an IGDTUW alumna of the 2021 batch and is now a Site Reliability Engineer at Twitter

THE CURIOUS CASE OF THE CLASS OF 2020

It all started with an increase in cases, lots of hoax scares and finally the revelation of a worldwide pandemic followed by a lockdown. Little did most of us know what we had stepped into. Hearing '21 days of lockdown' came like a lightning bolt to many. But again, most of us reading this had the privilege of finding lost hobbies, learning new skills, reading old diaries, hopping on to fun zoom calls with friends and family, binge-watching shows and of course sharing memes all day long. Not to forget, being caught in the clutches of the latest social media trend of the week. But it was or I must say, it is like being happy, free, sad, confused and lonely at the same time.

Now for the class of 2020, Taarangana'20 was the beginning of the party season. With our new friend in town, it seemed like someone just tossed our bucket list out of the window. Trip plans cancelled, parties and treats pending, no farewell celebrations and all those incomplete photoshoots with our best buddies. The days we thought we'd be all dressed up and having the time of our lives with stories to count, all we did was stay curled in comfy clothes. Frankly speaking, I didn't know what to expect out of this time. Staying in the new normal felt like a huge rescue mission, more like being a superhero who stayed at home. No one exactly knew how to define a diagnosis or cure. But then we had to snap out of all this in time for our first wave of online classes.

Major project being the highlight of the last semester, the new online mode of working was different. Unlike our long hours of sitting together in any lab to brainstorm, It

taught me the power of the internet, a lesson in successfully working as a team in spite of not meeting in person, dealing with technical difficulties and the potential in networking across borders. When I look back, our University did a splendid job with the entire process of online exams and we were the few seniors who were fortunate to give exams and graduate on time. Back then everyone had their apprehensions. There was also a sense of fear that hovered with LinkedIn being flooded by posts about rescinded offers. All we could do was keep faith and hope for the best. Many offers got pushed ahead by a few months and later, most commenced virtually. Not seeing one's first office or colleagues in person does leave a scar but at least there was something to hold on to.

ABOUT THE AUTHOR



Pearl Pullan

Pearl Pullan is an IGDTUW alumna of the 2020 batch and is currently a software engineer at Ericsson. She has previously served as the WIE Chairperson at IEEE IGDTUW.



**Life in
Quarantine**

It is said, ‘where there is a will, there is a way’. We were determined not to let go of one of the milestones of our undergraduate years. So, in May, the 62 of us gave titles to each other, dressed up in our favourite outfits and put together a virtual class farewell video memoir. Later, going back to the hostel in July was difficult, not because of restrictions but because I had never seen it so quiet. IGDTUW campus looked fresh with clear blue skies and monkeys but it didn’t have the main species that made it so endearing. In December, we had a successful online convocation and we are finally alumni of IGDTUW despite a very peculiar year.

“Staying in the new normal felt like a huge rescue mission, more like being a superhero who stayed at home.”

It is difficult to come to terms with what has been happening around us. Usually, vaccines reach us after years of trials and experimentation. Science and technology have covered light-years and here we are with something that has got ready in a few months, leaving us praying that we are successful in this attempt and the following class batches return to the old normal. Motivational quotes hit hard when you know you’ve touched the rock bottom of sanity.



Some days are very difficult, even though everything may seem fine there would be that pinching void. So, channel your emotions constructively and tell yourself, ‘this too shall pass’, at least that’s how I try to wade through my days.

INDIRA GANDHI DELHI
TECHNICAL UNIVERSITY
FOR WOMEN

इंदिरा गांधी दिल्ली
तकनीकी महिला
विश्वविद्यालय

3rd ANNUAL CONVOCATION

Chat publicly as madhur...

Annual Convocation 2020

THE ACADEMIC LIFE: AN INTERVIEW WITH DR. SOURABH BHARTI

Dr. Sourabh Bharti graduated from GGS Indraprastha University, Delhi in 2010 and received both Masters and PhD degrees from Indian Institute of Information Technology and Management, Gwalior, India in 2013 and 2018, respectively.

He was a visiting researcher at Anglia Ruskin University, UK during 2015-16 under the prestigious UK-India Education and Research Initiative (UKIERI) project. He was also the recipient of a Stipendium Hungaricum scholarship in 2017 to pursue his partial doctoral studies in Hungary.

He studied Computer Science and Engineering as an undergraduate and further specialised in Advanced Computer Networking as a post-graduate and explored Internet of Things as a doctoral researcher. His current research interests are Industry 4.0, Edge & Fog Computing and Wireless Sensor Networks.

Srinidhi Ayyagari from the Editorial Team, got the chance to interview Dr. Sourabh. Read on to find out more!

**Thank you so much for taking the time out of your schedule and joining us!
Before we move on, we would love the readers to get to know you more! Can you tell us a bit about what brought you to your specific career path?**

Dr. Sourabh: It was back in 2012 when I was working towards my master's thesis. It introduced me to the world of research which gave me a free hand to explore & express independent research ideas. I got familiar with the 'publications and authorship' which was a perfect gateway for me to connect with the outside world. I always had a knack for writing which helped a lot in communicating with the scientific community.

Are you working on any exciting project right now? Can you tell us about it?

Currently we are working on a predictive maintenance project with IBM. The project attempts to bring the intelligence closer to the origin of the data in a smart manufacturing set-up. It involves developing distributed machine learning techniques suitable for resource-constrained edge devices. The project involves cutting-edge technologies such as federated & split-learning, trust based computational off-loading etc.

ABOUT THE AUTHOR



Dr. Sourabh Bharti

Dr. Sourabh Bharti is Marie Skłodowska-Curie research fellow at SFI CONFIRM Center for Smart Manufacturing and currently based at Nimbus Research Center, Munster Technological University, Ireland.

Now that is something very cool! Can you tell us what an average day in your life is like?

On a typical Monday morning, I review my meetings for the day and block my time for research activities (reading, writing & programming). It is followed by preparing for the most urgent meeting first and so on.

In retrospect, what courses helped you the most in your career?

Particularly, 'Discrete Mathematics' and 'Algorithm analysis & Design' were two subjects on the undergraduate level that helped me throughout my research career. Luckily, MIT open courseware offers a free online lecture series that covers both of these subjects. Another course which I refer to many times during my research activities is 'Modelling and Simulation'.

We all have a role model to motivate and inspire us. Who was your biggest inspiration?

Rahul Dravid has been my biggest inspiration since childhood. Like him, I always like to work behind the scenes, and as Harry S Truman once said 'it is amazing what you can accomplish if you don't care who gets the credit'.

He is indeed an inspiration for many! The greatest and the classiest player that Indian cricket has ever seen!
What are some things about research as a career that you wish you knew in your undergraduate days?

I did not realize the importance of attending scientific conferences and webinars during my undergraduate days. I strongly recommend every undergraduate to attend as many such events as possible.

They say that there is wisdom in challenges, any challenges that you faced during your journey? How did you overcome them?

In my research journey, I encountered failures more often than successes. Handling rejections from the editorial offices of scientific journals was tough. Sometimes, the peer review process becomes very subjective and unpredictable. Taking the uncertainty into account and moving forward was the biggest challenge for me.

A lot of students are confused on whether to pursue higher studies in India or abroad. What pointers should they keep in mind while making that decision?

In my humble opinion, the place/institution of study has a limited role in defining one's career. Aspiring researchers should be very clear about what they want to pursue and focus on the bigger picture. The institution can only give you a platform to learn but at the end of the day, you will have to step-out and fight for your place on your own merit and skillset.

Now what if you had to sum up 'your academic life' in one word, what would it be?

I guess 'Evolving' would be the correct word if there has to be one!



Can you share any memorable moments that make you feel good for having chosen this career path?

A prolonged institutional stay was the biggest take-away for me from my academic life. If you choose to go for higher education (masters and doctoral), at least 6-7 years are added to your academic life. Being a part of an institute of national importance, I got the opportunity to meet a variety of people from different states, cultures and age groups which helped me grow as a person.

As I was living in a residential campus, I had my space to work, play and party! There are numerous memories and as it is impossible to list them all here, I would recall a few which made me feel good for choosing research as a career path.

I love to travel and visit different places and countries. Because of my research career, I got to travel a lot for conferences and technical events. It also extended to my first international trip when I was selected as a visiting researcher under the UKIERI project.

I was able to make international footprints through my research publications. I think this is one thing I cherish the most about my research career.

**That is just great! From your experience, what advice and guidance would you like to provide students who are interested to pursue research as a career?**

STEM projects are highly multidisciplinary and thus require a variety of skills to be applied. My advice for a STEM undergraduate is not to specialise in one domain, rather try to explore and learn about as many domains as possible. As the research in STEM moves at a fast pace, it is relatively easy to publish the work at different avenues which sometimes can give a false sense of accomplishment. However, in my opinion, a STEM researcher's focus should be more on making impactful contributions to the research area. The publications will follow. Last but not least, if you are interested in research, prepare to fail; again and again and again...

Thank you so much for interviewing with us, this was so insightful! Wishing you great success ahead!

WHY DID I LEAVE MY FAST-TRACKED CONSULTING CAREER?

Life shuffles really fast when one moves into the Corporate space, especially after an MBA. I got my dream job - Consulting. I always believed I had the pace of life and brains to strive, and not even the winds could stop me now. Attractive bonuses and great hikes. Large-size projects and unique business problems to solve. New cities, new hotels, and new food almost every week.

What could go wrong?

Nothing. Except that there was this constant yearning inside of me - an insatiable thirst.

Cut to IGIT - 2012-13 (We referred to it as IGIT back then).

My friends and I would lie on the ground a lot, basking in the sun and soaking in all the warmth. Everyone around would either laze or crib or run to one of the classes. People were attending either CAT or GATE coaching classes - everyone wanted to go big in life - be someone important - earn crazy bucks - travel the world. I, on the other hand, was daydreaming about my make-believe world of running my business. I was instructing people, solving HR problems, delegating tasks, attending seminars, giving awards.

But, it was just me. Everyone else thought that it was wishful thinking. A kid's fantasy.

My mistake #1 - I believed them. I fell into the rat race. I joined Corporate, won a few accolades, completed MBA, won a PPO, joined Consulting and life went on for 3 years.

Cut to December 2020

It was a typical winter morning. I had my day planned. My calendar was blocked with back-to-back meetings and there was no breathing time, even for meals. As the year drew to a close, it dawned on me. This was not the life I dreamt for myself!

I went to my Director and told him, "Shubhankar, I want to take a break from Consulting. I don't think I can keep up."

Shubhankar replied, "I hope all's well, Komal? We are looking at a promotion for you in May and we want you to lead the Gurgaon office. We have big plans for this service line."

I said, "I appreciate everything that you and the organization have done for me, but I'd still like to take a break."

Two days later, I quit.

ABOUT THE AUTHOR



Komal Gupta

Komal Gupta is an IGIT alumna of the 2013 batch from the department of MAE. She's worked with Oracle and Deloitte in the past. She is now the Founder & CEO of Witty Escapes, a platform for Online Escape Room experiences.

Cut to Present

I started my own company - Witty Escapes. It is a world of Online Escape Room adventures. For anyone who's thinking what, I usually summarise it as - "Imagine you and your friends are locked inside a themed space. You can pick any theme from A Haunted House to The Middle Ages. After entering the theme, your team has to find clues, crack codes, and complete a mission to finally escape from that space. All of this, but on your laptop!"

The possibilities for me are now endless. My new world is endless. I have just started but it's been a new challenge every day for me - from finding a unique name for the company to converting the first customer. New learnings. New victories. New hardships. New heart-breaks. Every. Single. Day.



To all you beautiful, intelligent and strong young ladies reading this, I only have one message to share -

"Nothing can stop you in your journey but yourself. Dream big, keep your eyes ahead and your feet on the ground. Life is a very unpredictable ride and only you will navigate yourself through it"

“And don't let anyone tell you otherwise.”

A WALKTHROUGH OF MITACS GLOBALINK RESEARCH INTERNSHIP

While applying for internships in 2020, I came across Mitacs Globalink Research Internship. Since I had prior research experience at the time, I felt like it was a great opportunity for me and consequently, applied. Mitacs GRI is a competitive initiative for international undergraduates that are selected from across 13 countries and regions. Each year, top-ranked applicants participate in a 12-week research internship under the supervision of Canadian university faculty members in a variety of academic disciplines.

The 5-month long procedure of Mitacs GRI is quite stressful and requires patience but is worthwhile indeed! It starts with an online application around the month of September every year which consists of personal details, education background, research statement, 7 research projects that the student wishes to apply for (priority based) and Letter of Recommendation by one or two faculties from the home university of the candidate. An ideal LOR must mention the student's capabilities and behavioural aspects as a whole while the research statement must highlight the significant contributions made in the research domain over the past years.

Additionally, the application has a CGPA criteria for the shortlisting purpose (usually 8 and above). Once the application is shortlisted, the student is either invited for an interview by one or more professors as per the priority list, or the professor directly selects him/her based on the application and experience. Interview procedure is divided into two phases: First phase is in the months of November-December and second phase is in the months of January-February. The final results are declared in the month of February end or March.

ABOUT THE AUTHOR



Nishima Goel

Nimisha Goel is Mitacs Globalink Research Intern at Université du Québec à Chicoutimi (UQAC), Canada. As a research enthusiast in technology space, she has authored two research papers and is currently working on a third one.

“ Requires patience but is worthwhile indeed! ”

I received the internship offer for the research project titled, "Adaptable IDEs" from my first preference professor at University of Quebec at Chicoutimi (UQAC) Quebec, Canada.

I personally believe that there is a lot of scope of research worldwide. Mitacs GRI is one such opportunity which not only provides exposure, but also an opportunity to contribute in various research areas and provides great experience for those who want to go for higher studies!

MY JOURNEY TO BECOMING A GOOGLER: THE OFF-CAMPUS WAY

Hello! I am Shalini Jha, a final year student pursuing B.Tech in Electronics and Communication Engineering (ECE) from Indira Gandhi Delhi Technical University for Women. I have previously done an internship in Western Digital (previously SanDisk) as a firmware developer and in ETI Labs as a research intern in the summer of 2020 and 2019, respectively. I have received PPO from Western Digital and an on-campus offer from Atlassian Corporation for the Software Development Engineer role in my final year. And lastly, I have received an off-campus offer from Google India for the position of Software Engineer.

Talking about the awards and scholarships I received, I have been awarded Grace Hopper Celebration India Scholarship'2020, S.B Jain Motivational Award, and Shri Dharampal Scholarship for my academics excellence. I have kept myself active in extra-curricular activities too. I am Public Relations Head at Training and Placement Cell, IGDTUW, ex-Vice Chairperson at IEEE IGDTUW, ex-mentor at LeanIn, and have been CR since my first year till date.

My Experience from Google's Recruitment process

Google's complete recruitment process is undoubtedly a very lengthy procedure that takes several months. Hence, it definitely tests your patience to the extreme, but that's

what makes it unique. The application process starts with applying through their career portal (<https://careers.google.com/>). Post-screening your application, one of the google recruiters will contact you for a short interaction and a quick rapid-fire round based on data structure and algorithms. If you perform well in this, you are directed for the telephonic round. It will be a 45 minutes technical interview which any Googler across the globe will take. Every technical round in Google is of 45 minutes and starts with a brief introduction followed by solving the coding questions. There could be more than 1 question per interview or extensions and modifications in the same question. The process is first to explain your approach, optimize it and then code it. The interviewers make sure that you are comfortable enough and may give you hints to provide the right direction for thinking about the solution. Once you clear the telephonic round, you are forwarded to the onsite interviews, which is a bunch of 5 interviews: 4 technical and 1 Googleyness and Leadership(GnL) round.

Talking about the GnL round, they try to assess whether you are a right fit for the company by asking many situational and behavioral questions. The complete onsite process is vigilantly handled by the assigned google recruiter, who schedules the interview according to your availability and solves your queries. Once you receive overall positive feedback from the interviewers, the recruiter asks for transcripts, mark sheets, and updated resume to forward to the Hiring Committee, along with detailed feedback from each interview. The hiring committee works on every facet of the candidate's profile and screens the best-suited candidates. After an appreciable time of 3-4 weeks, they share the final results regarding your selection. One important point to note here is that each round is an elimination round; hence, be mentally prepared even to embrace the rejection.

The recruiter keeps you updated at every stage of the lengthy recruitment process and is just a mail away. Hence, my overall experience was excellent and memorable too.

ABOUT THE AUTHOR



Shalini Jha

Shalini Jha is a Software Engineer at Google and previously served as the PR Head in TnP Cell, IGDTUW and WIE Vice Chairperson at IEEE IGDTUW

Preparation tips for Google

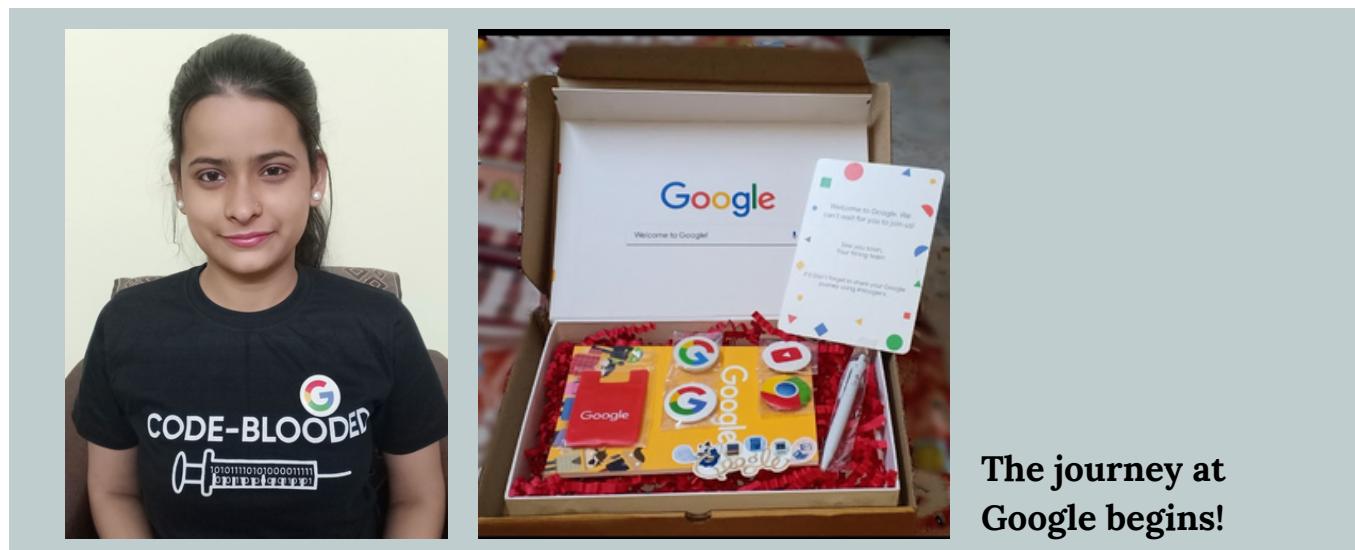
Google doesn't repeat its previously asked questions. The primary purpose of having so many technical rounds is an overall assessment of the candidates on different topics hence prepare all the topics of DSA properly. Secondly, they ask application-based questions. Therefore one must know how to choose the correct data structure and an algorithm to reach the optimized solution. Also, I recommend every interested applicant to give special attention to the "concepts" learned along with the practice as just practice alone can't help you crack tricky questions that you have never seen before. Competitive coding is essential for bagging offer from Google as it teaches you to solve the same problem in multiple ways. Last but not least, from my personal experience, I would advise maintaining a decent academic percentage as well, it certainly gives your candidature bonus points.

“Desire for success but embrace the rejections too, as they play a crucial role in developing you as a person.”

Take-aways

Out of all the applications, only a handful of candidates get a chance to interview in Google, so pat yourself if you make it this far. Desire for success but embrace the rejections too, as they play a crucial role in developing you as a person. Keep trying and never get satisfied with your achievements. Always strive for better as "Sky is the limit."

Lastly, always help the needy in every possible way you can, never intentionally hurt anyone, and be honest to yourself. All the best for all your future endeavours. You will always get what's best for you :)



ALL ABOUT BRANCH CHANGE IN IGDTUW

When I took admission in IGDTUW, I opted for Electronics and Communication Engineering. With my JEE rank, I found it the best possible option for me. But as I had computer science as one of my core subjects in class XII, I developed a keen interest in the said domain. So I always yearned to do my under graduation in Computer Science and branch change was my last resort to make that happen.

In my initial days, I had no guidance regarding the process and what one needs to do to get a branch upgrade. The only thing I knew was that I had to get a decent CGPA and to be honest, this is the only requirement. There's no benchmark CGPA associated with it but yes, above 9.0 will surely do the job for you. One needs to be consistent with the coursework and you'll soon realize that it is way easier than all the competitive exams you've just given.

Now to answer what I did differently that resulted in my efforts being capitalized more effectively than my other batchmates who were aiming for the same, I would say, I attended most of my lectures with full concentration, and half of my exam preparation was done then and there. There were some classes that I thought were unproductive so I made sure that I just maintained a decent attendance in them and studied for them later, after I was done with the more substantial subjects.

Regarding the process of upgrading to the branch of your choice, after your first year, you will be asked to fill a form asking about your interests and preferences for the branches you want to upgrade to. The upgradation is done solely based on your CGPA which is the average of your Semester I and II SGPs. Given the seats unoccupied in each branch, allotment is done in descending order of CGPAs with your current branch not taken into consideration.

In lieu of the above, I would like to suggest to do the following:

1. Know the Syllabus: You should limit your studies according to the syllabus given by the university as question papers are strictly made according to it. Try to cover all the sub-topics under a unit before the exam so that you can answer any questions that may come.
2. Never miss the Deadlines: The internal evaluation contributes about 25% in your grade so submit all your practicals, assignments, and tests before the deadline. Do not take any viva or MCQ test lightly. They may all carry some marks in your final assessment.
3. Help your peers and take help from them: Yes, the environment in the batch may get competitive but never hesitate to help others or take help from them. You will learn something during the process.
4. Write neatly in the answer sheets: The professor checking your answer sheet will not devote a lot of time understanding your answers, if you scribble. So, write your answers in a presentable manner, you might get rewarded by step-marking.

Refer Previous year papers: Previous year's question papers tell you a lot about the pattern of the question papers. Practice them before your final exam to get a hang of the type of questions that may get asked.

ABOUT THE AUTHOR



Aastha Bansal

Aastha Bansal is a computer science undergraduate student from IGDTUW with interests in Web development and Machine learning, Generation Google Scholar (APAC) 2021 and looking forward to work as a Software Development Engineer.

Furthermore, it is important to create a balance between your studies and extracurriculars. In IGDTUW, you'll find a pool filled with technical and non-technical societies, and as a fresher one tends to over commit to these societies and later find oneself not being able to fulfill the responsibilities assigned. So, I was very careful in choosing the societies I wanted to be a part of. You should try to be a part of one or more because without involving yourself in extra-curricular activities you won't be able to get a 360-degree college experience and they also help you build upon social and time management skills which you'll need later in your professional life. I was also part of Innerve - the technical fest of IGDTUW, as a coordinator in ECE as well as CSE/IT tech teams. Along with that, I was also part of the sponsorship team of Taarangana, the cultural fest of our university, and believe me, I had the best time working in both of them.

If you think you need to sacrifice everything to score well then I am sorry to disappoint you but I had a lot of fun as well in my first year. I made so many great friends, visited some great cafes around Delhi, stayed in the hostel during Taarangana which was a rare chance since I am a day scholar and lastly, never got cut off from social media.

After reading all this, you might wonder if putting all these efforts into getting your branch changed is even worth it?

“ You should aim high but never let your expectations get a hold of your mind.”

I would definitely say, yes! If you get your branch upgraded, you will get into a more competitive environment of people who are doing wonderful things in terms of development and coding, motivating you to do the same. You will get the opportunity to study the core subjects of Computer Science, if you choose for this particular branch like I did, which will give you an edge during the placement season.



Towards the end, I would recommend everyone reading this article that you should aim high but never let your expectations get a hold of your mind. Keeping a positive outlook is very important when you are competing with people equal or better than yourself.

If, unfortunately, you miss the mark and do not get upgraded, a good CGPA will always reflect that you have an academically strong background and you'll learn so much in the process that it would all seem worthwhile. You'll definitely reach your goals with or without a branch change. So, don't forget to make the most out of your college life, regardless.

MY SWITCH TO DESIGN

I somewhere knew that I was a creative person since school but I was brought up in an environment like most of the students here - an academically bright student who would follow a conventional path. I was happy being known that way. Never had the chance to explore other options.

After school, I messed up. A long list of failures in a pretty short span of time along with a touch of depression arising from various complications. That was the lowest point of my life. And in that time, I stumbled upon engineering and into IGDTUW. I was not happy. Just before I joined college, I had read on the internet about a design entrance. Somewhere this information stuck with me at the back of my mind.

I took baby steps when I joined the creative team of the cultural fest in my first year. Did some decor work. It wasn't exactly my thing. But I continued this in my second year. I also joined the tech fest creative team where I got the chance to learn and create posters for the fest. I realised that I could sit on my desktop for hours learning the software and creating new content, whereas I couldn't sit for half an hour to code. I was a PCMB student in school and now a Computer Science student who didn't like coding. It was a shame, really. Everyone thought I was wasting an opportunity since that is where the money is. But after the depressing two years, I was way too mature to force myself into doing something I knew I couldn't do for the rest of my life.

I wanted an outlet to unleash my thoughts and creativity and so I used social media as a platform. It was the perfect way to do the unconventional. I've written a lot about my thoughts there. Suffice to say, it helped me get back on track.

Two years of college had passed. But I still hadn't done anything concrete to pursue a career in design. From 6th semester, I did internships to cover up the damage, they weren't MNCs but they were something. Meanwhile I had backlogs to clear. I passed the subjects with a considerable increase in my academic performance. So after cleaning up the mess I was in, I finally started preparing for CEED - Common Entrance Examination for Design. It's not easy to try to do something different when everyone around you is bagging placement offers in 6 digits. Fortunately I got placed in a good company which boosted my confidence even more. I solved the previous year question papers, watched a lot of tutorials on the important topics, practiced the skills required and found some great mentors.

CEED question paper consists of two parts, A and B. Part A focuses more on the logical, spatial and analytical aptitude of the candidate. It is online and has objective questions. This is immediately followed by part B which needs to be done in an answer booklet. It will check a candidate's creative and problem solving skills. You don't have to be an artist for this, just enough to portray your thoughts. The part B of a candidate will be checked only if they clear the cut off for part A.

ABOUT THE AUTHOR



Vibhuti Sagar

Vibhuti Sagar is an IGDTUW alumnus and currently pursuing Master of Design (M.Des) from Indian Institute of Technology, Hyderabad.

Any candidate who clears the overall cut off is eligible to apply to different colleges with their score card. I wanted to cover up for the lost time so I was keen on getting admission in my first attempt. I'd say college doesn't matter if you are passionate about something, but for me it did. I cleared the exam with a good rank and so was shortlisted for the further rounds of all the applied Universities. Normally, these rounds happen offline separately in each University, but in 2020 it was online due to the pandemic.

Various rounds are conducted by each University such as -

1. **Aptitude test** - Some Universities conduct this test in addition to the interview. One should read the syllabus and go through the previous year question papers if possible. Mostly it'll be basic aptitude which shouldn't be a problem if you study in IGDTUW.
2. **Studio test** - A lot of Universities conduct this round where the candidates are given a problem to solve and communicate their ideas in a limited amount of time. The candidate is usually judged on their process rather than the end result.
3. **Portfolio and interview** - All the Universities conduct this round to understand the candidate's interests and why they want to pursue this field. They will be asked questions based on their portfolio.

A portfolio is probably the most important part after being shortlisted. It could be really overwhelming for someone coming from a non design background like myself. But it is just a collection of all your creative work. Professional work will always give you an edge since a student is competing with people who have been part of this industry for years and have probably accumulated tons of work. So how does an engineer make their way through? It is certainly difficult but not impossible. I mean if I did it, you can do it too. I decided to focus on showcasing my skills. So I put up my engineering projects, personal projects and some extra work I did specifically for the portfolio. My portfolio was different than most people and I'd like to think that is exactly what helped me to get noticed. It wasn't always enough but it was a start.

Process of admission at IIT Hyderabad in 2020 -

1. CEED Exam
2. Applying online with the CEED score
3. Shortlisting of students by IIT Hyderabad
4. Online studio test
5. Online interview and portfolio discussion
6. Final result



After a tiring process and delay of months due to the pandemic, I finally joined IIT Hyderabad for Master of Design (M.Des). This was the first time I felt happy and satisfied in years.

My journey at IIT Hyderabad has been quite overwhelming to say the least. It felt like my entire world had turned upside down. The entire process to learn changed. There is something new to learn every single day. This field is different. It's not all sunshine and rainbows which was the impression I had. There is a dark side. A side no designer ever talks about. There are unspoken rules. And I'm still trying to figure them out.



I've been exploring and learning. I'm trying to understand what kind of designer I want to be. There are many options to choose from. I found some great people here who've helped me every step of the way. It hasn't been easy. But you know what? I love it. It's the first time in my life I made a decision to do something and I'm actually doing it. I wouldn't trade it for anything else.

I've never been one to follow the herd and I'm not about to start that now. I don't know what the future holds and which direction I'll take next. But I'll pave my own path.

Our teachers in IGDTUW weren't lying when they said that the constant pressure will help you prepare for the outside world. IGDTUW made me the best version of myself. Now when I look back, I wouldn't change a thing. I'm pretty sure that IGDTUW will start a design course in the next few years and I cannot wait to see that happen.

For all of you who want to do something different, it'll surely be difficult but totally worth it ❤

TIPS AND TRICKS TO WRITE YOUR VERY FIRST RESEARCH PAPER!

A research paper is a piece of academic writing that provides analysis, interpretation and argument based on in-depth independent research. Research papers are intended to demonstrate one's academic knowledge of a subject.

Research Process:

The prime step in writing an effective research paper is the research process wherein the author finds the topic and selects the problem statement. The research process should be given an ample amount of time as it influences the rough layout of the research paper and helps in choosing the appropriate proposed work.

The proposed work can either be new or an extension to existing work. If it is an extension, the research process involves reviewing the existing work, identifying the limitations, missing work, or area of modification in it, and formulating what new/unique can be done in the existing work as your original solution to the proposed work. On the other hand, for new proposed work, the research process involves understanding the topic, identifying the proposed work, and formulating the required implementation/ solution.

The research process involves gathering literature to seek information to study and review the chosen topic. The most commonly referred sources are the related research papers and journals which are available on IEEE Digital Library, Google Scholar, Research Gate, and other sites. Government publications, guides, reports, and newspapers are also a few commonly used literature sources. The best way to refer to these sources is by storing and maintaining them in a spreadsheet. The sources can be maintained in columns with the necessary information such as citation, important points, author name, year, etc. This eventually helps in the literature survey and references.

After gathering the resources and identifying the proposed work, you should formulate the corresponding implementation/ solution by articulating your understanding and originality to it. For technical papers, the implementation should be supplemented

with observations and findings. Moreover, the results should indicate the distinction and uniqueness of the proposed implementation with the existing ones.

Organizing and writing the research paper: The next step after concluding the research process is organizing and writing the research paper. The research paper should include the following headers:

1. Abstract

Abstract indicates the outline and thesis statement of the research paper. The thesis statement summarises the main idea and the proposed work of the paper along with the supporting ideas.

ABOUT THE AUTHOR



**Satwika
Bhattacharjee**

Satwika Bhattacharjee is an Engineering Analyst at Goldman Sachs. She is currently the Industry and Corporate Relations Coordinator in IEEE Delhi Section Young Professionals Affinity Group. She was the IEEE Chairperson in the session 2020-21 and was also the former Technical Activities Coordinator in IEEE Delhi Section Student Network.

2. Introduction

It presents the background and context for the research paper. It should cover the following 3 points:

- Set the context by providing the basic information about the main idea
- State the importance of the main idea
- State the proposed work

3. Literature Survey

It provides a summary of the existing work done in the research idea. Moreover, it identifies the limitation, missing work, or area of modification and what new/ unique things can be done in the existing work.

4. Proposed Implementation

It presents the solution formulated after intensive research and literature review. It highlights the originality and uniqueness of the implementation along with the methodology followed to arrive at it.

5. Results and Discussion

It supports the proposed implementation with the appropriate observations, data and findings obtained and highlights the corresponding analysis and interpretation. The results are generally presented in the form of tables and figures.

6. Conclusion

It should briefly mention the thesis statement, work done, discussion on the implementation, and conclusion obtained from the research. It should also highlight the limitations or shortcomings in the proposed work if any.

7. References

It lists all the literature sources referred to by you during the research process. The references should be mentioned in chronological order of appearance and must be in IEEE format. The reference number can be given to figures and tables as well.

- The majorly accepted template for a research paper is the one provided by IEEE. It is available on <https://www.ieee.org/conferences/publishing/templates.html>.

Revision of the research paper:

The final step that concludes the writing of the research paper is revision. It is the most important step for the efficacy and perfection of the paper. Some revision tips are:

1. Prepare a rough draft/ outline of the paper by jotting down the important ideas and headers. This functions as a checklist for further revision and editing.
2. Revise and evaluate the research paper draft to ensure coherence in idea and solution.
3. Thoroughly check the grammar, spelling, vocabulary, and transition of ideas in the research paper. You may use online free resources such as Grammarly for the same.
4. Check the plagiarism of the paper using any plagiarism checker and include the citations wherever necessary.
5. Get your paper reviewed and proofread by any Professor or expert in the respective field to enhance the authenticity and quality of the research.
6. Provide proper labels and numbers to the figures and tables used.

Basic format to cite references:

The generally accepted format for citing a reference in the research paper is the IEEE format. The citation format for the most commonly referred to literature sources is given as follows:

1. Book

[#] Author(s) Initials(s). Surname(s), "Title of chapter in the book," in Title of His Published Book, *xth ed.* City of Publisher, (only U.S. State), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx-xxx.

2. Conference Paper

[#] Author(s) Initials(s). Surname(s), "Title of paper," presented at the Abbreviated Name of Conf., City of Conf., Abbrev. State, Country, year, year, pp. xxx- xxx, doi: xxx.

3. Website

[#] Author(s) Initial(s). Surname(s), Title of the Webpage, Publisher/Production information (if relevant), Abbrev. Month. Day, Year of Publication. Accessed on: Abbrev. Month. Day, Year. [Type of medium]]. Available: site/path/file

4. Dataset

[#] Author(s) Initials(s). Surname(s), "Title." (Date, Year). Distributed by Publisher/Distributor. <http://url.com> (or if DOI is used, end with a period)

5. Lectures

[#] Author(s) Initials(s). Surname(s). (Year). Title of lecture [Type of Medium]. Available: URL

Quick Tips for writing an effective research paper:

1. Use a unique style of writing which is simple to understand and doesn't contain jargon.
2. Have a clear understanding of the concepts.
3. Use innovative ideas and ways to justify the research work.
4. Explain the different scientific terminologies and use proper citations.
5. Thoroughly revise and proofread the research paper.
6. Avoid using contractions, idioms, colloquial expressions, and cliques.

COVID-19 Detection using Compressive Sensing

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BUILD YOUR OWN ANTI THEFT ALARM: A SIMPLE TECH HOW-TO!

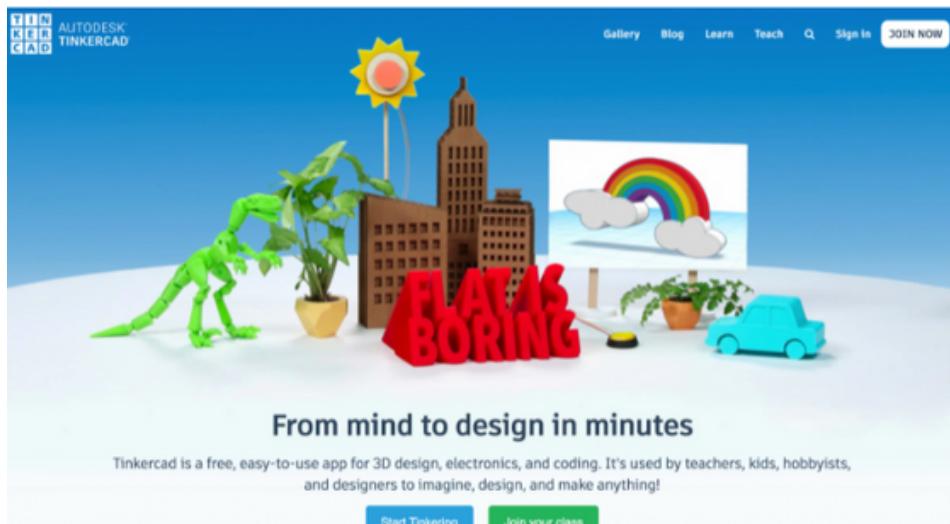
Working of this circuit can be used as an application for Anti Theft alarm. As soon as somebody enters your room and switches on the lights, the alarming system will be activated. This will alert you that someone has entered your room.

It is a simple circuit that can be built on your own as a device.

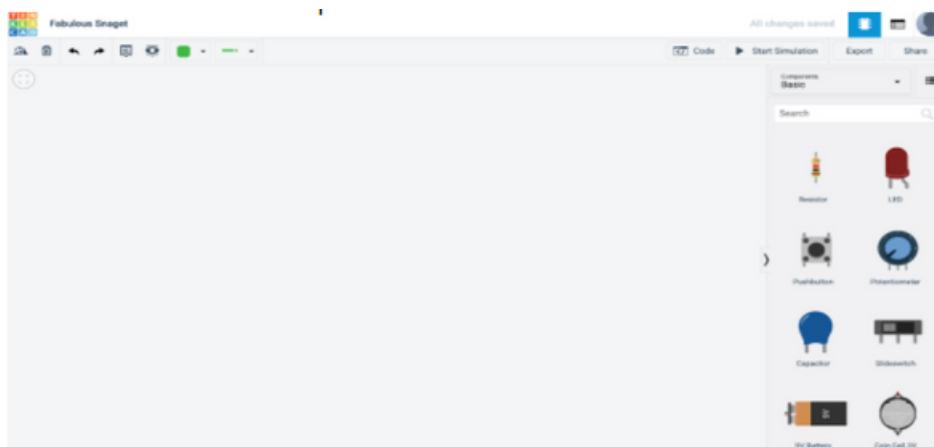
So what are you waiting for? Just go and get started !!

Step-1: Setup of online simulator

1. Open Tinkercad



2. After Signing in → Dashboard will open → Click on circuits.
3. Click on Create new circuit.
4. A window shown below will open.



5. Bingo! Your Setup is completed!!

ABOUT THE AUTHOR



Divya Pant

Divya Pant is a Research And Development Intern at Schneider Electric. She previously served as the WIE Vice Chair Internal at IEEE IGDTUW and as the Technical Activities Coordinator at IEEE Delhi Section.

Step-2: Select the components first

1. Piezo Alarm



2. Battery (9V)



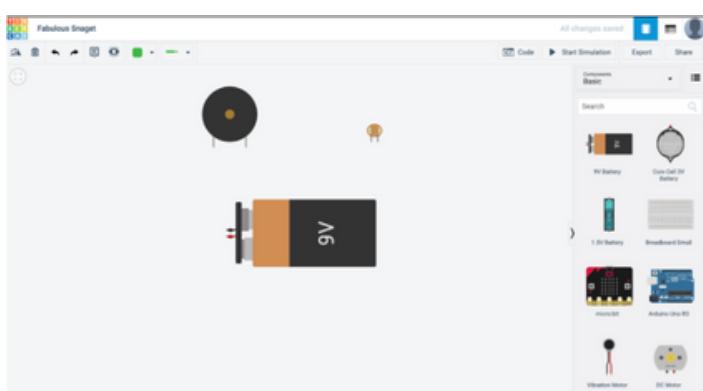
3. Photoresistor



4. Wires

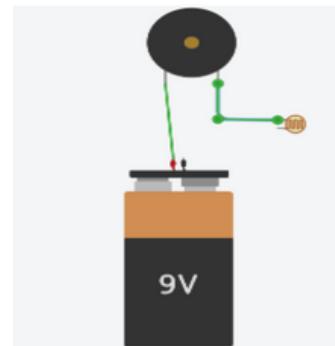


5. Drag all the components in your workplace as shown below.

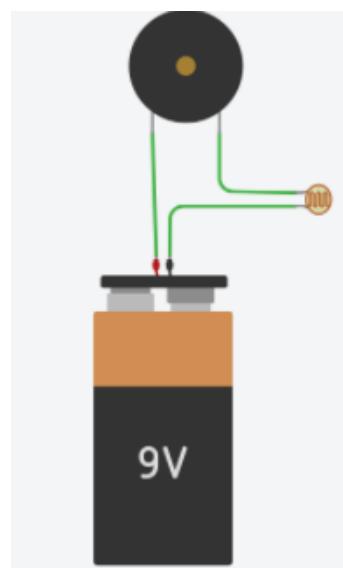
**Step-3: Interfacing of components**

1. Connect the positive terminal of the piezo sensor to the positive terminal of the battery.

2. Connect the negative terminal of the piezo sensor to any one of the terminals of the photoresistor, as shown below.

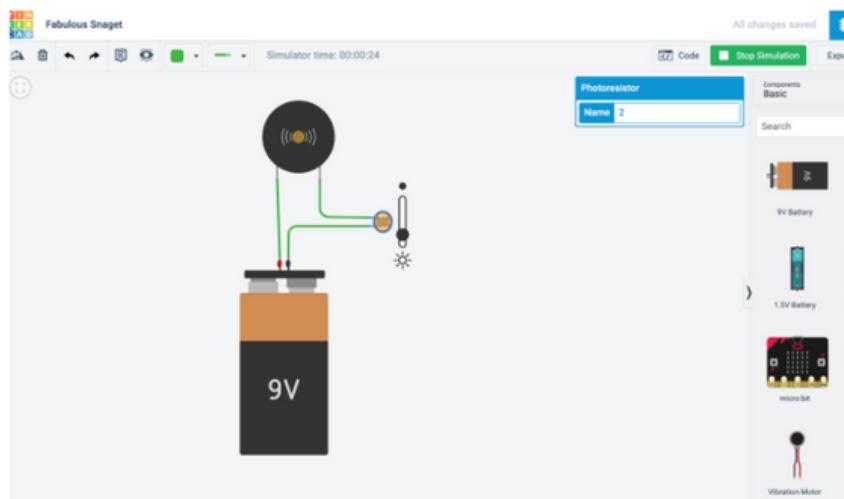


3. To complete the circuit, connect the other terminal of the photoresistor to the negative terminal of the battery.

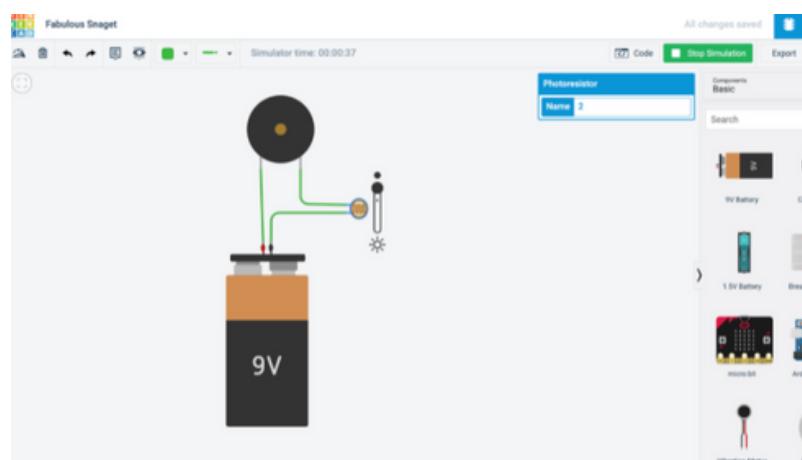


Step-4: Working of the Circuit

1. To understand the working, first you need to understand the working of a photoresistor.
2. The working principle of a photoresistor is photoconductivity. When light strikes the photoresistor, it starts conducting i.e it behaves as a short circuit.
3. When the light is OFF, it stops conducting i.e it behaves as an open circuit.
4. When the light strikes the photoresistor, it will complete the circuit and a buzzing sound will be heard from the alarm.
5. To visualize this effect, click on start simulation→click on photoresistor→Slide the button towards light.



6. When the light is OFF, it will open the circuit and the buzzing sound will not be heard from the alarm.
7. To visualize this effect, click on start simulation→click on photoresistor→do not slide the button



8. With this working of the circuit is completed.

Happy Learning!!

ENTREPRENEURSHIP IS FOR EVERYONE

Here you are, reading this article about Entrepreneurship and Startup. My assumption here would be (correct me if I'm wrong) you are curious about this topic, you're fascinated but it scares you.

So before I start pouring all the "Gyaan" about it, I have a question; What comes to your mind when you come across the words "Startup" or "Entrepreneurship"?

I would assume, something like Big Money, working late nights, being your boss, cool cafes, innovation, autonomy or maybe something like "The Pitchers"? If something else, then let me know, I would like to know your romanticised version of a "StartUp".

Whatever imagery has come to your mind, let it stay. I'm not here to shatter that glass bubble. After all, it is somewhat true.

But trust me when I say, being an entrepreneur is a nourishing experience, I mean it. You're going to encounter a cocktail of feelings and emotions. Entrepreneurial skills aren't something that can be taught in a class. Neither does an algorithm "one size fits all" exists for this. It's more like your periodic table law, some elements would follow an order but most of them would be exceptions. Simply said "to each its own".

The first step towards being an entrepreneur is having an idea; a desire to solve some real problems. The solution you're providing is the essential part of your Startup. Before you can propose a solution, you need to understand the problem completely. You have to look at your problem statement from every angle and through all types of lens. You have to talk to people, collect their views, look for businesses which have similar ideas like yours and what will set you apart from them.

This article will talk about my journey with Raahee and how we reached where we are today. If you haven't heard about us yet, please take two mins to check our website, (www.raahee.in).

Back in 2019, I was in the second year of my engineering degree, summer vacation had

just begun, JEE's results were out, this newspaper article caught my attention. It was about a boy who took his life because he couldn't get into IIT. The article talked about his incompetence and cowardice and how he couldn't deal with the setback. He couldn't discuss this with his parents, unable to express and take the loss, the guilt filling him up, he took that drastic step. Despite having his family and friends by his side, he couldn't get the professional help and attention he needed.

It got me to think about the critical condition of the mental health state in India. I wished that if only that guy had the resources and access to help, maybe he could have been saved.

We all are aware of the stigma related to seeking help for mental health issues. We all have heard of cases, not so different from this. People in serious need of emotional guidance, not getting the required help.

ABOUT THE AUTHOR



Kshitija

Kshitija is the founder of Raahee, a mental health startup.

She believes in leading a generation of change through empathetic innovations and technology.

She advocates for mental health, emotional hygiene and LGBTQ+ rights and is always ready to have a conversation over a cup of chai.

Why? Because of taboos and myths surrounding these issues, shortage of resources and most importantly, we don't know how and whom to reach out to.

I just had an urge to resolve this problem, I felt too intensely for it and I couldn't stop thinking about it. At some point, I also needed help but couldn't get it. So, my personal experience, combined with this case, drove me to do something about it. Nothing extraordinary happened. I cared about something, which made me comb for a solution, that's all. I researched extensively about the problem at hand, the existing resources and what I can build, integrating all this we launched Raahee.

“ It’s more like your periodic table law, some elements would follow an order but most of them would be exceptions. Simply said “to each its own ”.

So this is how my journey of being an entrepreneur started. I had a problem I cared about, I had a feasible solution for it (just a vague idea, but it was there). After that I shared my idea with a few more people, we made a team of three, who just had a single aim, making mental and emotional health services accessible to all.

After a few days, we reached out to Cisco thingQbator for support and discussed the idea with Prashant and Arun Sir. We had nothing else other than an idea and an urge to solve this issue. At that point I couldn't have imagined we would have been able to reach the position that we are now in. Prashant Sir helped us to make something out of that vague idea. He asked us to look for existing solutions and their shortcomings, how we differed from them, he asked us the right questions, and gave us many more ideas. He was always there for us. In fact, he still helps us with everything. Having said this, I'll emphasize that having a mentor is very important or maybe the most important thing other than having a vision.

Let me tell you a secret (if I haven't already); I had no technical skills, no idea as to how stuff is done, just an idea and the urge to make it possible. I wanted Raahee to happen (rather badly).

The Raahee you know and see now is the outcome of persistence, failures, setbacks, all-nighters, uncertainty and a desire to do something for the people seeking help. The co-founders of Raahee, Mansi Bansal and Shubhangi Gupta took steps, divided teams, and built the website. We worked together on the app, nights went by without sleep (all our team members worked after their college classes at least till 2 or 3 am), we had multiple discussions, meetings regarding the app and even fun sessions with our team to tackle fatigue. People trusted us, they contributed a lot and bestowed deep faith in our solution, and this is how folks, we launched the first version of our app.

That day, when I pressed the button to release the app on the play store, making it available for masses, that moment felt unearthly, it was surreal in all the senses.



It wasn't magic, it was all our efforts. I was satisfied. I didn't care about the number of downloads or the reviews at that moment. All I was able to remember was that day when we started, the one year gap when we didn't do anything, moments of weakness, times when I just wanted to give up, all those motivational sessions by VK Arora Sir of Anveshan, the gyaan and jokes by Prashant Sir which made my team to always move forward, despite everything. I was reminded of it all. The journey was filled with setbacks, hardships and much uncertainty. Our hard work ultimately led to our product, our dream solution; from having no knowledge to working towards building the solution and finally having it on the screen. I was proud of everyone who worked for it. I had a motherly feeling for Raahee, it was my baby. So, this is what entrepreneurship is for me. I have done everything for my StartUp.

Building a startup is not about how much you know, it's about how much you can trust, how much you can grind, how much you can believe, how long you can be with it. How bad do you want it and how much can you fight for it. You learn a lot; you learn about research, design thinking, talking to your customers, listening to their problems, getting their feedback, taking criticism, reading and learning about different stuff, creating pitch decks, communicating. It might seem like a lot but trust me when I say this, once people see you working towards it, you'd find them supporting you. Never hesitate to seek help and reach out to people who you think can help. You might think that your problem is stupid or baseless or irrelevant, but trust me, it's better to get it out of the way even if it feels stupid, and honestly no doubt or problem is stupid in the first place, it's just learning.

There will be so many people who won't support you or would not understand your idea at all. But you don't have to give up. I have fought my parents almost every day for working on Raahee; they don't support me for this. I hide and lie, and still work, all because I can see other 100 people supporting my vision and working relentlessly to make it happen. When I started, nobody wanted to work with me because they were uncertain. I don't blame them at all. Now I see people reaching out to contribute to our cause, commenting on our social media platforms, applauding us. People coming forward and telling us how we changed their life. So, I guess it takes just a bit of patience and persistence.



I'd also say that our College has enough resources to help us with our startup dream.

You can reach out to Dr VK Arora Sir from Anveshan Foundation, tell him about your idea, he will guide you, get in touch with people who can help you, and also provide seed funding for your startup dream.

You can reach out to Cisco thingQbator, talk to Sahan, Lyle or Prashant Sir. They'd help you with your idea and how to build an MVP. Not only this, but they also help with small expenditures, like domain name purchase, cloud expenses, hosting etc. If you have hardware requirements, they will also help you with that. They would connect you with the right mentors, have different sessions to teach you all important things, get you connected with your fellow entrepreneur(s). Being a part of Cisco tQb's Cohort and being one of the incubatees of Anveshan is how we were able to reach here. Without the right support, it's going to be a difficult storm to sail through.

Studying in IGDTUW; we're lucky to have help so easily accessible to us. Even our VC ma'am is so helpful regarding this, helping us, giving us insights and making sure we get everything we need to make our dream come true. So, if you have an idea in your mind, an urge to solve something, please reach out to Dr VK Arora Sir, Anveshan Foundation or Sahan Sir, manager of Cisco tQb, or you can also connect with me. If you want to know more or just have some chit-chat, mail me at kshitija@raahee.in and I'll be more than happy to help.

All in all, I'd just say, if you have an idea, then just go forward and convert it into a reality. Trust me, you've got enough resources to move forward. I feel like entrepreneurship is for everyone; there is no specific checklist that you need to tick, or be super efficient with any particular skill set.



All you need is an urge to solve and a willingness to learn and implement. You will keep on learning new things with time, and you will get to explore, learn, make mistakes, build a team, communicate and do so many more things.

And I'd end by saying, *Entrepreneurship is for all.*

POETRY TIME!

1. WEAKNESS

The waves die in the arms of the shore
Breeze strokes the blades of grass
The dense clouds engulf the sun's glow
Heavy loads are lifted by light shafts
Supple water lifts the ice that froze
Simpletons often outshine smarts
Cacophonic sounds converge to Om
So Laozi says, "don't underestimate the weak, weak is the new strong."

2. DARK AND LOVELY

I am embracing my dark circles,
Falling for my bulged puffed eyes
My dark indie colour defines me,
I am colour of bravery,
I am the colour of the goddess kali.

I am the colour of your favourite Cadbury silk
No, I don't regret not having the colour of milk.
Yeah, I am your chick with cellulite,
Dark and dark yet shining bright.
I am dark yet I attract things,
Like the black hole.
And I am no longer an object of troll.
I am un-fair and I am lovely.

ABOUT THE AUTHOR



Avni Uplabdhhee

Hi there! I am Avni Uplabdhhee. I am a first year student at IGDTUW pursuing Computer Science. My hobbies are writing poetries, reading poetries and listening to philosophy discourses. I hope you enjoy my writings.



3. PHOENIX

And from the ashes,
The Phoenix is rising again,
I am reviving again,
From the gutters of illusions
Crossing mountains of hope
Didn't drown in the ocean of depression
Came back on the shore
Took my bow and arrow
Caution! Here comes the virago
Killed and torn my challenges apart
Like Vishnu did in Narasimha avatar
The blaze in my eye
Ambitions touching the sky
You can slow me down but you can't Stop me....



