



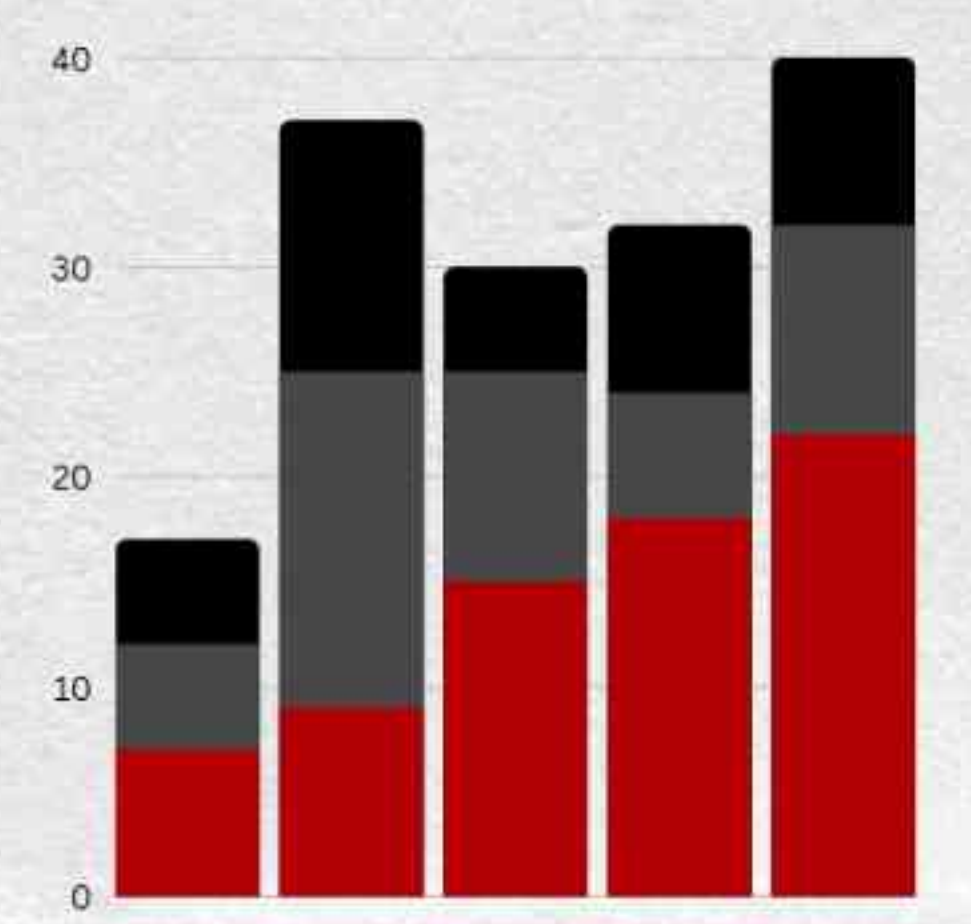
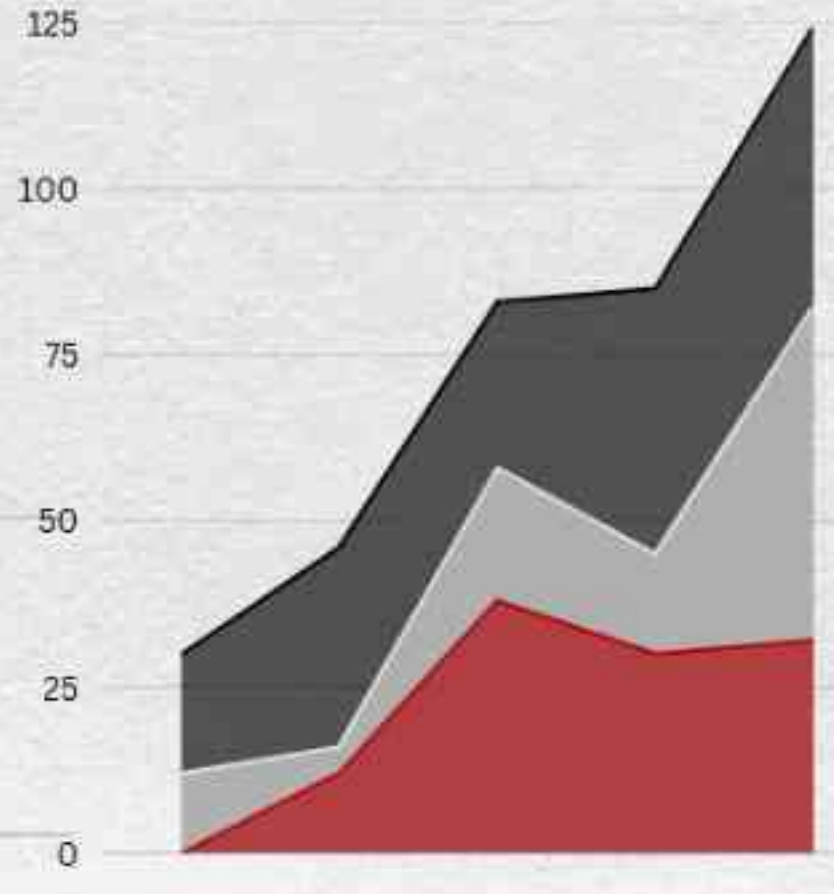
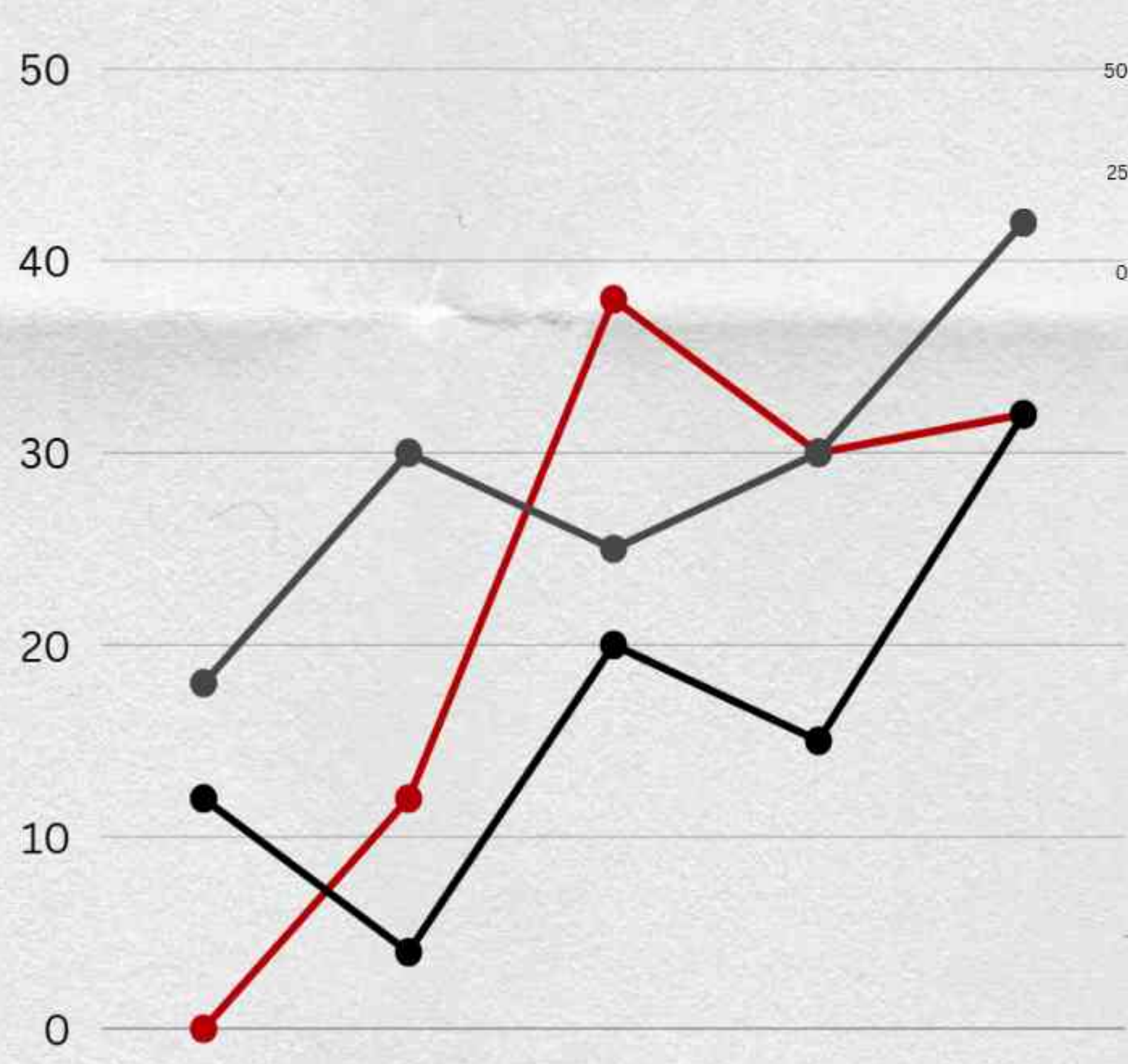
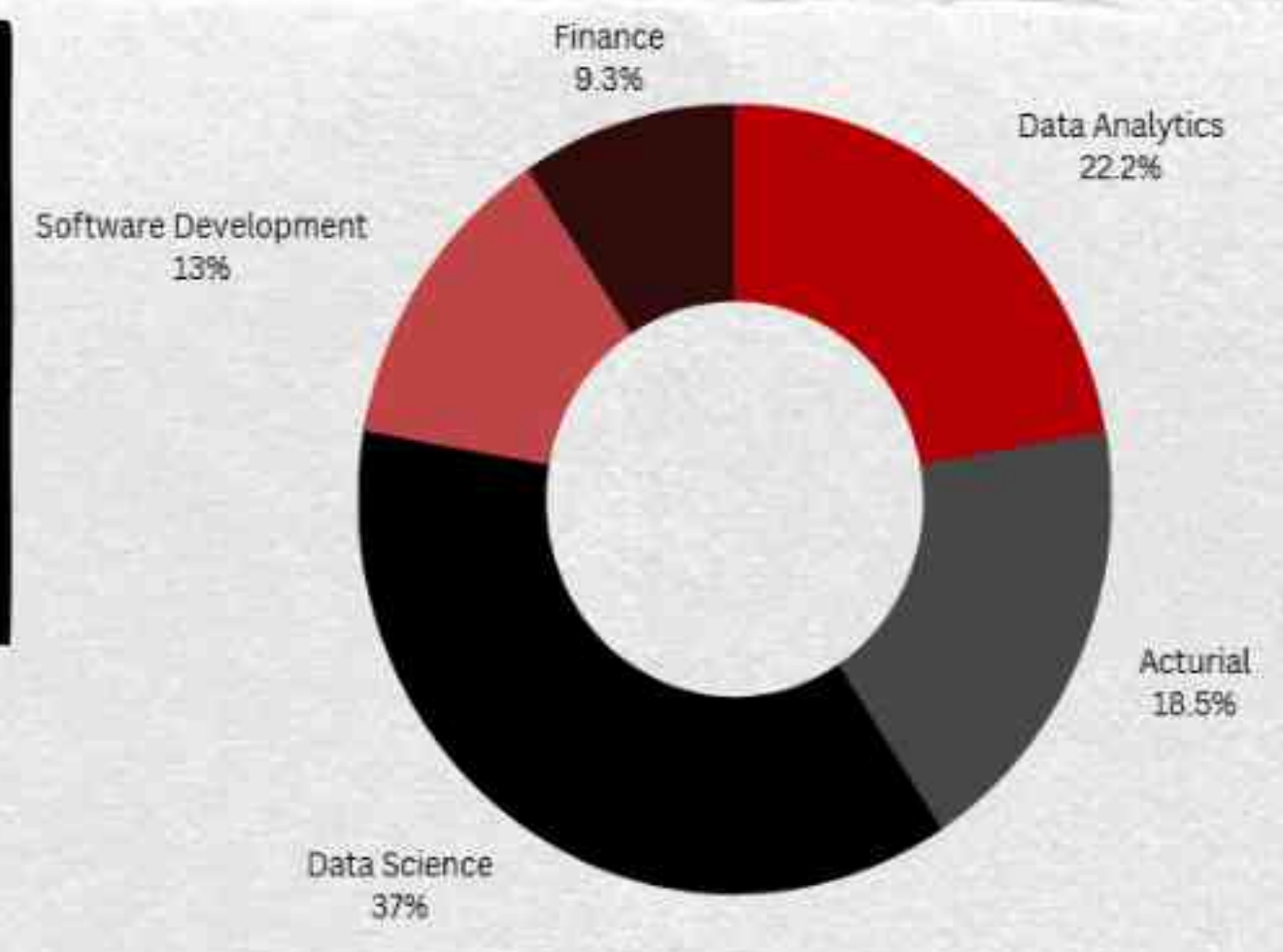
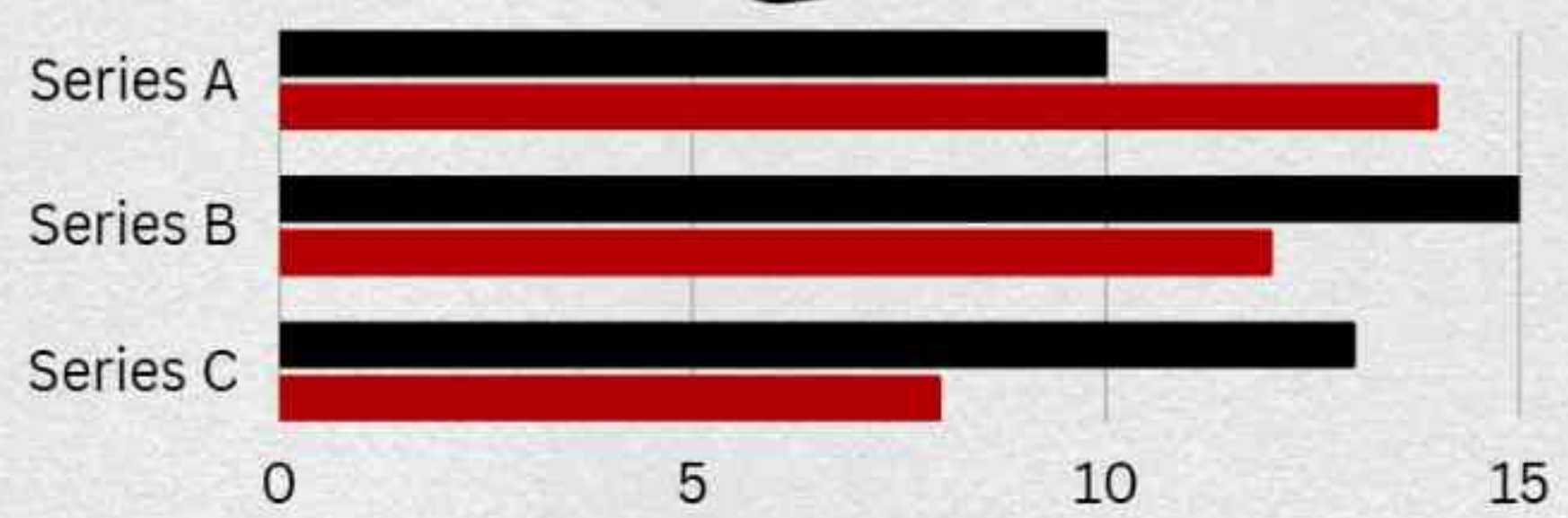
MATA SUNDRI COLLEGE FOR WOMEN UNIVERSITY OF DELHI



संख्यिकी

All about Statistics! Volume 03 Year - 2022-23

DATA MINING AND ITS IMPORTANCE



ROLE OF STATISTICS



DEPARTMENT OF STATISTICS

MATA SUNDRI JI

New Delhi, 2022-23

Volume 03



Mata Sundri Ji holds a special place in Sikhism for the role she played in leading Sikhs after the ascension of Guru Gobind Singh Ji.

She was an inspiring leader, a remarkable individual, an innovator, a devout Sikh, and a source of comfort for future generations. She was the wife of the 10th Sikh guru, Guru Gobind Singh Ji. She was born in 1667 to Bhai Ram Saran in Hoshiarpur, present-day Punjab. On April 4, 1684, she married Guru Gobind Singh Ji at Anandpur Sahib.

Baba Ajit Singh ji, Guru Gobind Singh Ji's eldest son, was born to her. She was an excellent mother and always trained her son to fight against injustice and help disadvantaged people.

After the demise of Guru Gobind Singh Ji, she took the command of Khalsa Panth and showcased her brilliant leadership skills. She preached Sikh values among the millions and asked people to lead an honest and righteous life.

She also issued hukumnamas to sangats under her seal and authority. She secured that the tradition of 'langar' (free community kitchen) continued to flourish.

Gurudwara Mata Sundri Ji is the literal holy sanctum raised in memory of Mata Ji where she lived for about forty years. Mata Sundri Ji returned to live in Delhi where she died in 1747. Mata Sundri Gurdwara of Delhi commemorates the location of the home where Mata Sundri Kaur Ji lived with Mata Sahib Kaur Ji.

The renowned institution- Mata Sundri College for Women, founded in 1967, is a tribute to her tremendous contributions to mankind, peace, and verity. The institution is a melting pot of individuals from all cultures, regions, and religions, which adds to its beauty and diversity.

Their experience, knowledge, views, and opinions add to the charm and individualism of the institution. The institution is growing and flourishing with each passing day, which is possible only due to the blessings of Mata Sundri Ji. She's an alleviation for all those who are floundering for justice, equivalency, sovereignty, and liberty.

We bow our heads in respect of her majesty.

PRINCIPAL'S DESK

New Delhi, 2022-23

Volume 03



Dear Friends!

As an old saying goes, "No one can whistle a symphony. It takes a whole orchestra to play it." In like manner, no creation in this world is a solo effort. Neither was this magazine. We are all stronger together.

It gives me immense pleasure to extend my heartiest congratulations to the Department of Statistics for coming up with the third volume of their e-magazine- 'SANKHYIKI.' It is indeed a great honor on the part of the students and teachers of the Department of Statistics. SANKHYIKI provides an opportunity for our students to pen down their ideas to be disseminated to a wider

readership. It is a platform for them to showcase their creative abilities, hidden dreams, and aspirations for writing. The themes, topics, classifications, and subjects included in this version are assorted and variegated. The magazine's semantic diversity is also to be admired and celebrated.

I wholeheartedly appreciate the dynamic spirit and efforts of all the students and teachers involved in bringing out the magazine. I would also like to thank Dr. Archana Verma and other faculty members who unlocked the bridge of words and imagination within the students with their steady guidance, advice, and creative insights. I congratulate the Editorial Team on the achievement and my best wishes in all your future endeavors.

Prof. (Dr.) Harpreet Kaur
Principal

TEACHER-IN-CHARGE'S DESK

New Delhi, 2022-23

Volume 03

The Department of Statistics, Mata Sundri College for Women, has recently started a rich tradition of publishing an annual magazine, "Sankhyiki". The present publication is the third edition of the series. It gives me great pleasure to dedicate this publication to all our students from other institutions and other professionals interested in the activities of our Department.

I must congratulate the members of the Editorial Board of the magazine, the contributors to the magazine, the faculty members, and all students of the Department of Statistics for putting in enormous amounts of effort and time in bringing out this edition well in time.



We will be happy to receive comments and suggestions from our readers which could help us further improve the contents and presentation of the magazine.

I am sure we will have many more editions of this magazine in years to come. The practice was started by present-day students over the coming years to both enlarge the scope and improve the contents of the magazine and expand its reach to a much larger audience both within and outside the country.

I wish you all the best and great success.

Regards,
Prabhsharan Kaur

CHIEF EDITOR'S DESK

New Delhi, 2022-23

Volume 03



What you think you become! What you feel you attract! What you imagine you create!

~Buddha

Greetings to all!
Every day digital media is becoming more and more important as a means of receiving, producing, and sharing information. There is no doubt that digital publications have always been a great option that provides a whole new world for magazine designs.

It gives me immense pleasure to bring to you all the third volume of our annual e-magazine 'Sankhiyiki'. This has been the platform for all our department students as well as teachers

for the past three years to showcase their vibrant talents creatively. And no doubt, like in past years, our editorial board has chosen a unique theme and has developed an artistic way of expressing it this year.

I congratulate the editorial board on their tireless efforts in bringing out this edition. I also extend my sincere thanks to all those who have contributed to this issue and enhanced its perfection and beautification through their articles, poems, art, etc.

Best wishes to all my dear students for their future endeavors!

With warm regards
Dr. Archana Verma

EDITOR'S DESK

New Delhi, 2022-23

Volume 03

Greetings, dear readers!
It is with great pleasure that we present to you the latest edition of our magazine, Sankhyiki. In this issue, we have carefully curated an array of captivating articles, stunning visuals, and insightful features that are sure to pique your curiosity and ignite your imagination.

Our dedicated team of writers and designers has poured their hearts and souls into bringing you the very best content from various spheres of life. From thought-provoking stories that delve into the depths of statistical applications to lighthearted pieces that celebrate the beauty of everyday moments, we have strived to create an experience for you to enjoy.

Stories can connect, challenge our perspectives, and inspire us to think. We have made it our mission to seek out the extraordinary in the ordinary and to shine a light on undiscovered themes.



We extend our heartfelt gratitude to our talented contributors, whose creativity and dedication have breathed life into these pages. We also want to express our most profound appreciation to you, our cherished readers. Your unwavering support and enthusiasm inspire us to continue pushing the boundaries of what a magazine can be.

We value your feedback, so please do not hesitate to share your thoughts and suggestions with us. Your voices matter, and they shape the future direction of our magazine.

Thank you for choosing to join us on this remarkable adventure. We hope that what we present will inform and leave an indelible mark on your heart and mind.

Warmest Regards
Vrinda Sharma

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New Delhi, 2022-23

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FACULTY 2022-23

New Delhi, 2022-23

Volume 03



MS. PRABHASHARAN KAUR



DR. ARCHANA VERMA



DR. MEENU GOEL



DR. KOMAL GOEL



DR. KOMALDEEP KAUR

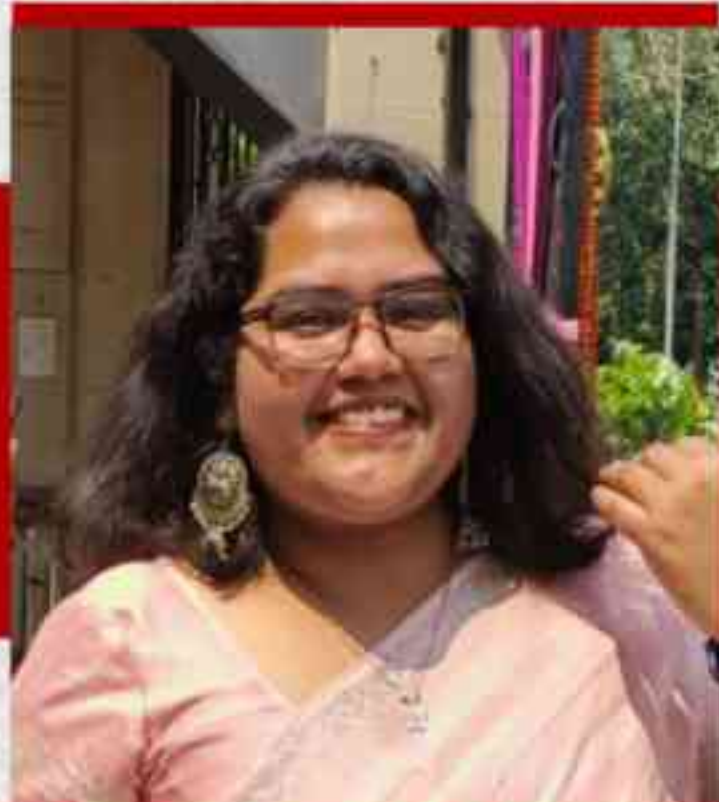
EDITORIAL BOARD

New Delhi, 2022-23

Volume 03



DR. ARCHANA VERMA



**VRINDA SHARMA
3RD YEAR**



**DAVLEEN KAUR
3RD YEAR**



**SURAMYA DINKAR
2ND YEAR**



**AMANJOT KAUR
2ND YEAR**



**ADITI BISHT
2ND YEAR**



**SUHANI ARORA
2ND YEAR**



**ANANYA PURI
2ND YEAR**

SOCIETY HEADS

New Delhi, 2022-23

Volume 03



PARUL GARG
President



AKANSHA GOEL
Treasurer



PREET SHUKLA
Vice-President



REVANSHI VOHRA
Secretary



SURAMYA DINKAR
General Secretary



AMANJOT KAUR
Social Media Head



KHUSHI PANDEY
Content Head



GURLEEN KAUR
Executive Member



SHRUTI RAWAT
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PRIYANSHI KALRA
Executive Member



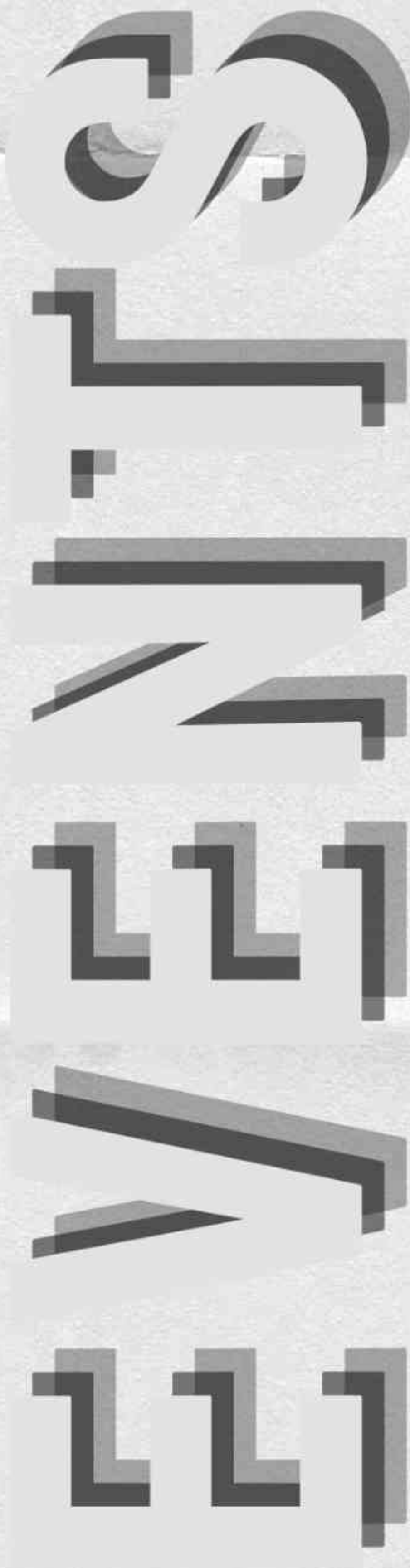
VRINDA AHUJA
Executive Member



PULKITA AGGARWAL
Executive Member

SANKHYIKI DAILY

EVENT SECTION



EVENT SECTION

New Delhi, 2022-23

Volume 03

TEACHER'S DAY

Teacher's Day celebration on September 5, 2022



On September 5, 2022, the Department of Statistics celebrated Teacher's Day in offline mode after a gap of two years. It was a joyous occasion to see the entire department step forward to celebrate their beloved teachers. Formal invitations were sent to the professors an hour in advance, and a day in advance to the students, maintaining the element of surprise. As soon as the teachers entered the classroom, they were greeted with roaring and enthusiastic wishes for the occasion. The students organized a cake-cutting ceremony for the teachers, and they were delighted to see the students' efforts.

A third-year student, Anshul Sharma, drew caricatures of the teachers. The teachers were very pleased and praised Anshul for the same. Then the cake-cutting took place. The cake was cut by all the teachers together while the students cheered. Then, the teachers received a box of delicious chocolates. The teachers commended everyone for their efforts and gave their blessings. All the students were thrilled to celebrate Teacher's Day after two years. Everyone was wreathed in smiles.

Dear teachers, we congratulate you all on Teachers' Day. Thank you for being our guide and inspiring us to study well. We are all lucky to have you as our teachers.

CAREER COUNSELLING SESSION

Online career counselling session held by Department of Statistics

On September 15, 2022, Statistika, Department of Statistics, and Motivation to Master's Cell hosted a Career Counselling Session under the auspices of IQAC of Mata Sundri College, University of Delhi. The session started at 6:00 pm on Google Meet. The session was attended by more than 60 students, teachers, and alumni of the Department of Statistics.

80+ students from various course registered.

It was a wholesome session that began with the Shabad and a few encouraging remarks from our convenor, Dr. Meenu Goel. Dr. Lokesh Kumar Gupta and Ms. Prabhsharan Kaur also gave some motivating comments.

There were 4 speakers from a variety of professions, including an M.Sc. in Computer Science, an M.B.A., a Master of Data Science, and an M.Sc. in Finance. Each speaker provided comprehensive responses to all the attendees' questions.

SPEAKERS:

- Ms. Divya (M.Sc. Computer Science, NIT Trichy)
- Ms. Saloni Garg (M.B.A., IIM Shillong)
- Ms. Alisha Manku (master's in data science, University of British Columbia)
- Ms. Sampada Kapur (M.Sc. Finance, Simon Fraser University)

ORGANISING COMMITTEE:

- Dr. Lokesh Kumar Gupta (Convenor, IQAC)
- Dr. Niti Arora (Secretary, Motivation to master's cell)
- Ms. Prabhsharan Kaur (Teacher in Charge)
- Dr. Meenu Goel (Convenor, Department of Statistics)

HOSTS:

- Preet Shukla (2nd Year, B.Sc. (H) Statistics)
- Revanshi Vohra (2nd Year, B.Sc. (H) Statistics)
- Khushi Pandey (2nd Year, B.Sc. (H) Statistics)

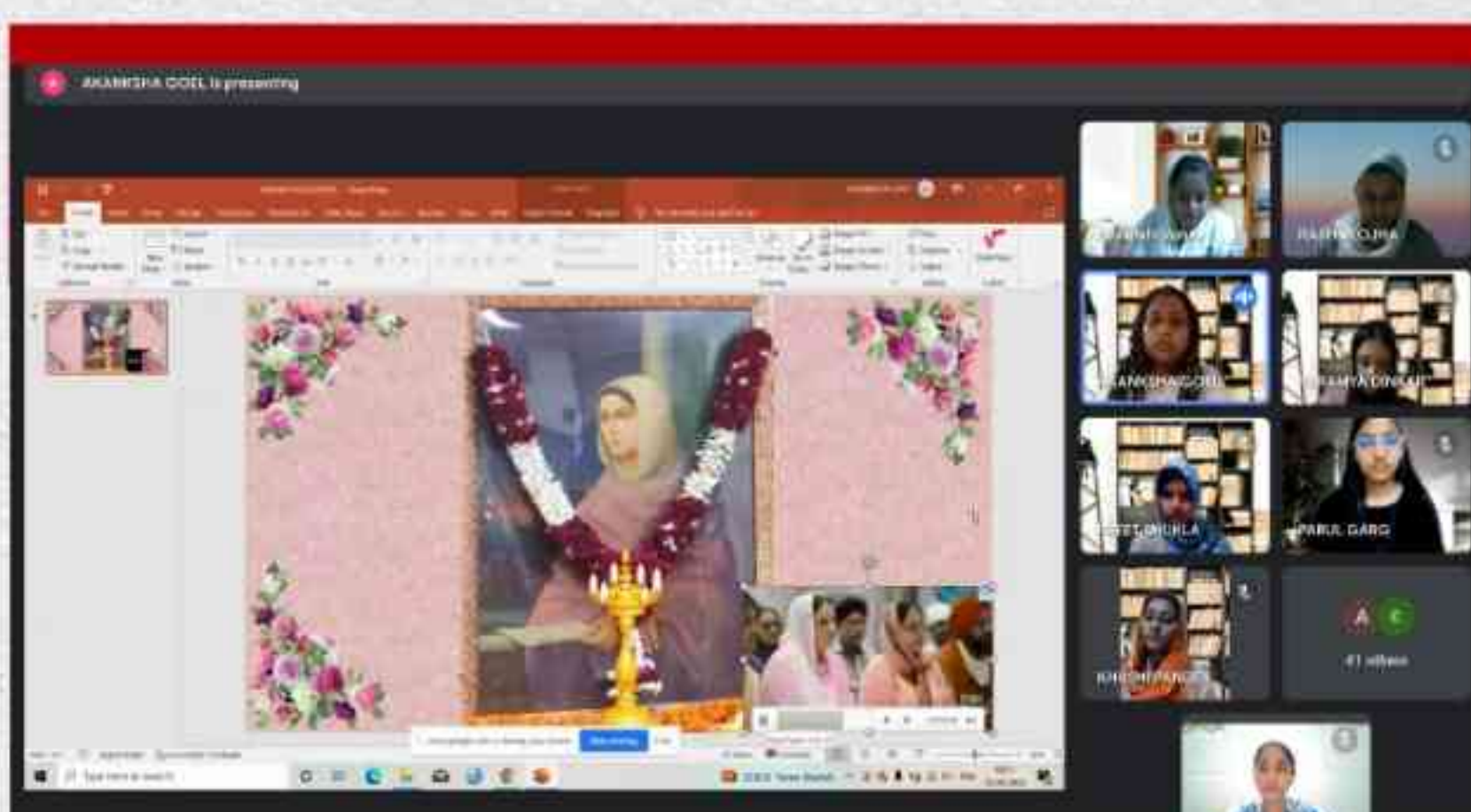
The event was conducted under the guidance and support of our honorable Principal ma'am, Prof. (Dr.) Harpreet Kaur, and all the teachers present.

The key purpose of this event was to advise undergraduate students in choosing their future careers and address all the challenges they face when pursuing a degree.

Divya, who is now pursuing an M.Sc. in Computer Science at NIT Trichy, was the first speaker of the day. She provided us valuable insight into how challenging it can be to change your master's degree course and navigate the trials and tribulations of a new setting. Saloni Garg, an M.B.A. student from IIM Shillong, was the second speaker. She discussed the pros and cons of various situations such as whether to continue the education or find work. Alisha Manku and Sampada Kapur were next in line. They are now pursuing Master of Data Science degrees at the University of British Columbia and M.Sc. Finance degrees at Simon Fraser University, respectively. The pair of close friends exchanged their stories about the challenges they encountered while submitting their applications to institutions overseas as well as how the waiting period scared them throughout the process.

As a result, alumni and juniors connected on momentous, motivating stories about further education and placements. The students had all their questions regarding placements as well as other spheres of the application and admission processes answered. They inspired and enlightened the students by sharing personal stories of the struggles that lead them to success.

At the end of the event, the convenor of the Department of Statistics, Dr. Meenu Goel proposed the vote of thanks, thanking Principal ma'am, speakers, department heads, all participants, and the team members whose efforts made the event a grand success.



SPSS MENTORSHIP PROGRAMME

7 day Peer mentorship programme

Statistika- The Department of Statistics of Mata Sundri College for Women, in collaboration with IQAC, organized a 7-day interdisciplinary workshop on SPSS that used to take place on weekends between September 17th and October 8th 2022 to familiarize students with a widely used statistical software- SPSS (Statistical Product and Service Solutions).

80 students from various course registered.

Akansha Goel, Navdeep Kaur, Harshita Joshi, and Vrinda Sharma from 3rd year, B.Sc. (H) Statistics took the initiative to mentor the students in this workshop, and the event was a success. Our heartfelt thanks to our Principal ma'am- Prof. (Dr.) Harpreet Kaur, Teacher in-charge- Ms. Prabhsharn Kaur, Convener- Dr. Kalpana Yadav, and Co-convener- Dr. Meenu Goel.

The registration of around 80 students from various departments, including Statistics, Computer Science, Mathematics, Psychology, B.Com. (Hons), and B.A. (Hons.), revealed an overwhelming reaction. The participants enjoyed the workshop. It has inspired them to go further into these subjects and offered a platform for them to create new visualizations for additional data sets.

Akansha Goel began the first session by discussing with the students about SPSS, how to use it, when to use it, and several other relevant concerns.

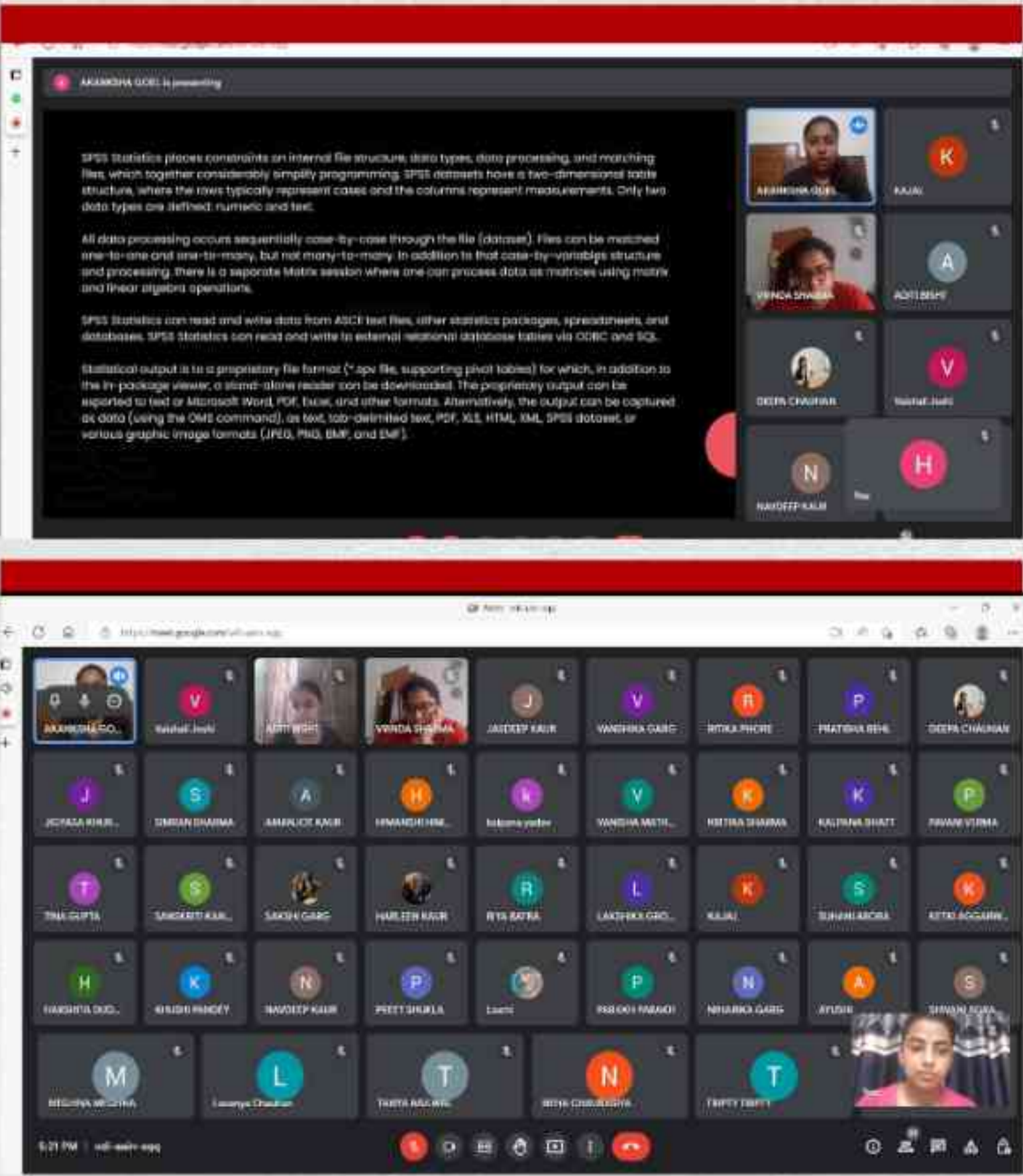
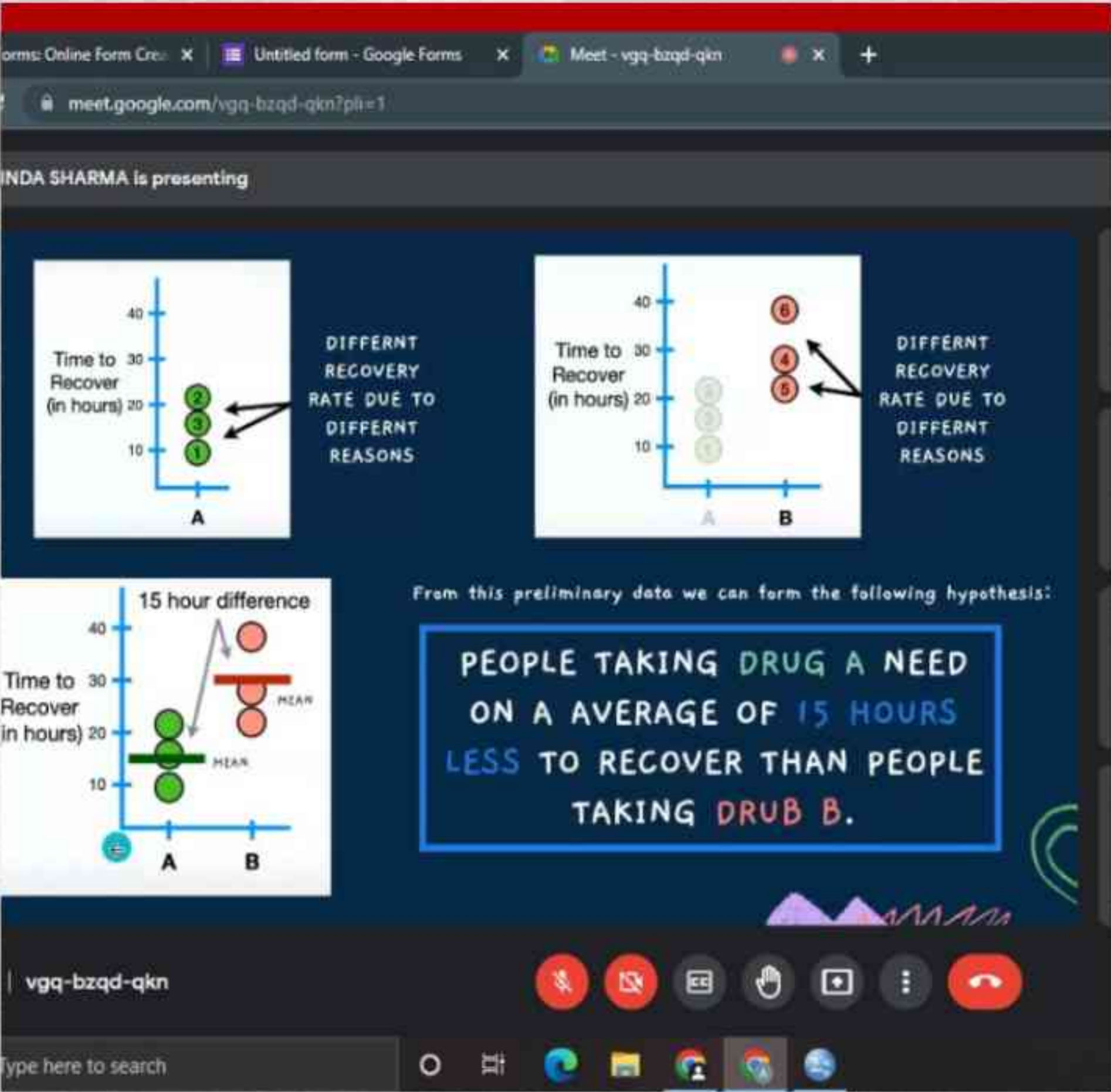
Every weekend, a new topic was covered, ranging from an introduction to SPSS graphics, correlation, random variable distribution, hypothesis testing, and various statistical tests.

Each session began with a question-and-answer session about the previous topic. Some sessions also included an MCQ task to identify which subjects were difficult for students to comprehend.

The session concluded with interactive session between mentors and students, discussing about various themes to improve comprehension and gorgeous smiles.

The program's goal was accomplished. Participants and mentors both benefited from the entire session. This application assisted users in realistically visualizing their data as well as implementing their future analysis, making data more fascinating and not just a series of numerical quantities.

The overall session discussion benefitted participants and mentors as well. This program helped the participants to visualize their data virtually and also helped them to implement their future analysis which made data more interesting and did not remain just a mere set of numerical values.



TAX ON INCOME UNDER THE HEAD SALARY

Department of Statistics held a tax planning session for college students

On 16th January 2022, Statistika, The Department of Statistics, Mata Sundri College for Women held a seminar on the topic “TAX ON INCOME UNDER HEAD SALARY” which saw an attendance of 50 students.

The event started at 12:45 PM with the felicitation of the guest Speaker “MS AMANPREET KAUR”. She is a faculty in Commerce department, Mata Sundri College for Women.

A FINE IS A TAX FOR DOING SOMETHING WRONG, A TAX IS A FINE FOR DOING SOMETHING RIGHT

Author

She is an alumnus of the revered Shri Ram College of Commerce, University of Delhi, and an active researcher in the field of investing. She also has numerous published research papers under her belt as well as various finance journals.

She acquainted the students with the objectives and goals of the seminar which reflected her profound knowledge of the topic. The session informed students about deduction and exemption, difference between old and new tax regime, condition for opting between the two regimes.

Furthermore, the students were also informed about the steps of Tax Planning, how to avoid tax, what is tax evasion and how it is illegal, what are Tax Deductions and Exemptions aspects in the constitution along with other interesting tidbits.

Some important deduction sections like 80CC, 80CCC, 80CCD and 80G which are a form of government relief that aids citizens in reducing their taxable income and lowering their tax bill for any given fiscal year were highlighted.

The interactive session surely ignited the inquisitiveness of participants and culminated at 1:30PM with a vote of thanks proposed by Dr Meenu Goel, the convener of the Statistics department.



DATA SCIENCE SEMINAR

Topic: "UNLOCKING THE POWER OF DATA SCIENCE"

On 20th March 2023, STATISTIKA, The Department of Statistics, and UDDHAM, The Entrepreneurship cell of Mata Sundri College for Women, organized an appreciative seminar on "UNLOCKING THE POWER OF DATA SCIENCE" in which 90+ students participated. With over 90 students in attendance, the event proved to be a resounding success, providing valuable insights and guidance for those seeking to explore the world of Data Science.

An interactive session ignited the inquisitiveness of participant.

The event commenced with a warm welcome address by Vrinda Ahuja, from the Statistics department, and Khushi Marwah, from the Entrepreneurship cell, followed by a felicitation ceremony for the guest speaker, Ms. Aadya Tomar. As a seasoned data scientist, entrepreneur, and educator, Ms. Tomar has worked with a diverse range of clients and helped them solve complex business problems. She is currently pursuing PGP in data science and business analytics from the University of Texas, Austin.

Ms. Tomar began by introducing the objectives and goals of the seminar and sharing her profound knowledge of data science with the eager audience. She discussed the fundamentals of data science, the qualities of an ideal candidate for this field, and the roadmap to becoming a successful data scientist. Ms. Tomar also spoke about various job opportunities in this domain, including data analytics, data science, machine learning engineering, business intelligence analysis, and data engineering. Additionally, she highlighted some real-world applications of data science in various fields, accompanied by a small case study to demonstrate its practical implementation.

Throughout the seminar, Ms. Tomar's presentation sparked the inquisitiveness of the participants, who listened attentively and asked insightful questions about job opportunities in data science and the journey to becoming a data scientist. Ms. Tomar generously shared her personal experiences and struggles, which served as a source of inspiration and education for the students.

The interactive session encouraged further engagement, with the audience sharing their views and clarifying their doubts. The seminar concluded at 2 pm with a vote of thanks proposed by the hosts, leaving the participants feeling informed, inspired, and motivated to explore the world of data science further.

The seminar received an overwhelmingly positive response from the students, who found Ms. Tomar to be highly knowledgeable and experienced in the field. The use of a case study was particularly impressive, enabling the participants to grasp the real-life applications of data science. The students expressed interest in taking part in similar sessions organized by UDDHAM and STATISTIKA in the future.

In conclusion, the seminar on Unlocking the Power of Data Science was a resounding success, providing valuable insights and guidance to the students of Mata Sundri College for Women. The event facilitated a comprehensive understanding of the fundamental principles of data science and motivated the participants to explore further opportunities in this dynamic field. The feedback received by the organizers was overwhelmingly positive, and the students expressed their desire to attend more such events in the future.



STAT-O-MATH

Annual department fest jointly organized by Asymptote, Department of Mathematics and Statistika, Department of Statistics, Mata Sundri College for Women, University of Delhi.

Stat-O-Math'23 was held on April 12, 2023. It was jointly organized by the Department of Mathematics & Statistics. This one-day annual fest began at 10 am and concluded at 4 pm.

Consisting of a vibrant inauguration ceremony, four inter-college competitions, and a cultural program, the fest was conducted smoothly after weeks of hassle and hard work.

The event was marked with several notable moments, including the badge Ceremonies of the student office bearers from both the departments.

Inauguration Ceremony: Fest began at 10 am with the inauguration ceremony held in Mata Sahib Kaur Auditorium. With the presence of honorable Principal Ma'am, Dr. Harpreet Kaur, Dr. Rama Verma (Teacher-in-charge of the Mathematics Department), Ms. Gurpreet Kaur (Convenor), Ms. Prabhsharan Kaur (Teacher Coordinator-Statistics Department), Dr. Meenu Goel (Co-Convenor) and other respected faculty members, and the union members specifically, Ameen Mehta (President-Asymptote), Parul Garg (President-Statistika) and Akanksha Goel (Treasurer-Statistika) as the hosts, the ceremony began with a bang. The event was marked with several notable moments including the college prayer, Ganesh Vandana, and badge Ceremony of the student office bearers from both the department societies.



STAT-O-MATH

Honorable Principal Ma'am was felicitated by the faculty members upon which the event formally started and instructions related to all the competitions were given.

Verbal Vortex: The first competition of the day was Verbal Vortex: An Inter-college open mic competition. Participants from different fields were cordially invited to showcase their talent.

The theme of the competition was "Related to Stats and Maths".

Diverse performances graced the stage ranging from poetry to singing, stand-up, and rap. The theme of the competition was "Related to Stats and Maths" where the participants were supposed to perform their art form on anything related to Stats and Maths.

With over thirty participants showcasing a variety of art forms and exceptional talents, the event was an absolute hit.

Mandala Motif: The second event of the day was Mandala Motif competition. The theme of this art competition was "Mathematical and Statistical Symbols" where participants were required to showcase their artistic skills by incorporating various statistical and mathematical symbols and creating a Mandala piece. Over twenty participants from various colleges participated in the event. The event was conducted with lots of enthusiasm and vigor.

Puzzle Palooza: This multi-round puzzle-based competition was conducted in the college auditorium. It was a team-based event where teams of three players were supposed to play.

The first round was a spell bee competition. Teams were given different words across the disciplines of Mathematics and Statistics to spell. In a point-based system, teams that qualified for this round were sent for the following round.

The second round was a crossword round where each was given a well-curated crossword sheet to solve. Qualifying teams played the third and final round, the "Whisper Challenge".

With a limit of three minutes, teams that could read the word, mouth it to their teammate, and decipher it, won. This fun competition also had special audience rounds and was enjoyed by all.

Hidden Oasis: The last competition of the day was Hidden Oasis: A Treasure Hunt Competition, held in the college campus. This competition was clue-based and the teams were required to search and decode various clues leading them to the hidden treasure.

Teams consisted of three participated, each having a unique name. The first clue was given by the event coordinators to each team. After which, they searched for the rest of the clues themselves. It was a fun event that had teams racing against time as well as each other to find the treasure.

Nishkarsh: A Cultural program

The last event of the day was Nishkarsh: A Cultural Program. It had various dance performances, stand-up comedians, and a DJ piece. From graceful classical to groovy western and energetic bhangra, students performed both in groups and individually to showcase their talent through various dance forms.

Three stand-up comedians were invited as guest performers to lighten the environment and bring smiles to everyone's faces.

Results of all the competitions were declared in the closing ceremony, with winners being awarded cash prizes, gift hampers, vouchers, and certificates.

With blasting DJ music, and everyone grooving and dancing their hearts out, the event culminated on a light-hearted note.

All the audience, participants, jury, and guest performers loved the event. After weeks of consistent hard work, Stat-o-Math'23 proved to be both an academic and a creative success, a celebration of both and more.



SANKHYIKI DAILY

ARTICLE SECTION

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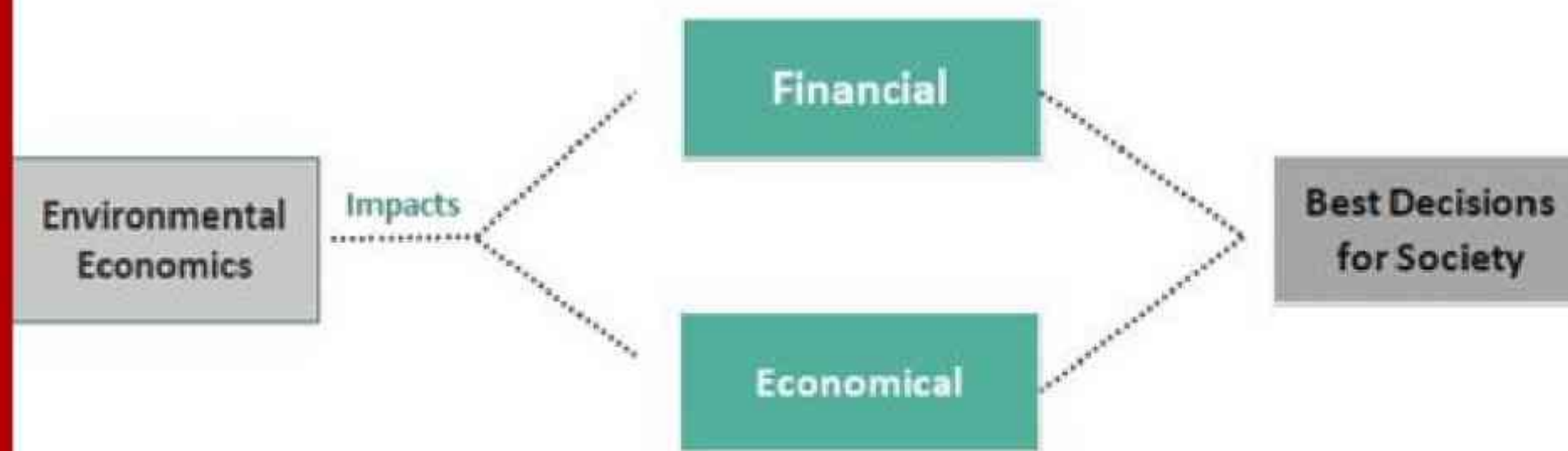
New Delhi, 2022-23

Volume 03

ENVIRONMENTAL ECONOMICS AND ITS RELEVANCE IN THE 21ST CENTURY

By: Davleen Kaur (3rd year)

Environmental Economics



As per definition, Environmental Economics is a branch of economics that studies the commercial and financial influence of environmental policies and schemes regulated and implemented by National and International authorities.

It helps in analyzing the impact of these policies on the ecosystem. It also measures the welfare incurred by the citizens after adopting these programs. It also scrutinizes the aftereffect of governmental actions faced by the general public. It also covers the administrative aspect of these policies and works on their drawbacks and alternative solutions. Environmental economists are researchers whose primary concern revolves around studying conservational policies. Thus they research environmental policies in utmost detail and list merits and demerits. Governments can refer to these reports and incorporate the suggestions in framing other policies.

Environmental economists also devise ways to improve the standard of living of people. They even formulate unconventional paths and auxiliary ways to ensure minimal wastage of natural resources. Environmental economists also compose ways to ensure the sustainability of resources without compromising on basic needs. Predicting the future of

FACTS

Environmental economics is a multidisciplinary field: Environmental economics draws on a range of disciplines, including economics, ecology, and sociology. This multidisciplinary approach allows for a comprehensive understanding of the complex interactions between the economy and the environment.



FACTS

Environmental economics can promote sustainable development: Environmental economics can play a key role in promoting sustainable development. By incorporating environmental considerations into economic decision-making, countries can ensure that their development is sustainable and benefits both current and future generations.

different policies based on the administration of the government is one of the fundamental duties of an environmental economist. Holding meetings with top-level policymakers and leaders and guiding them is essential for progress and evolution. A government that discusses its upcoming initiatives with environmental economists would be able to evolve human-friendly policies. With the emerging decades, the discussion on environmental economics has gained

bumper attraction worldwide. Owing to substantial industrialization across the globe and especially in the Western world in the 19th century, awareness regarding environmental economics has gained extensive momentum and has stimulated agitation amongst the crowd.

As a result, notable researchers and research institutes have begun scrutinizing and analyzing the statistics of this study. While researching, economists consider other related factors and externalities contributing to this issue. Factors including market fluctuations, resources available, and implementation period have a prominent effect on the situation. They also study the historic policies taken by the government to understand the concrete condition of the country and its citizens.

Thus after research and survey, they derive various conclusions regarding the recent environmental schemes enacted by the governments. They calculate the hidden and future costs of environmental policies and check the credibility of benefits and solutions proposed by the governments.

The term "externality" is often used in environmental economics to refer to the unintended costs or benefits of economic activities that are not reflected in the prices paid by buyers and sellers.

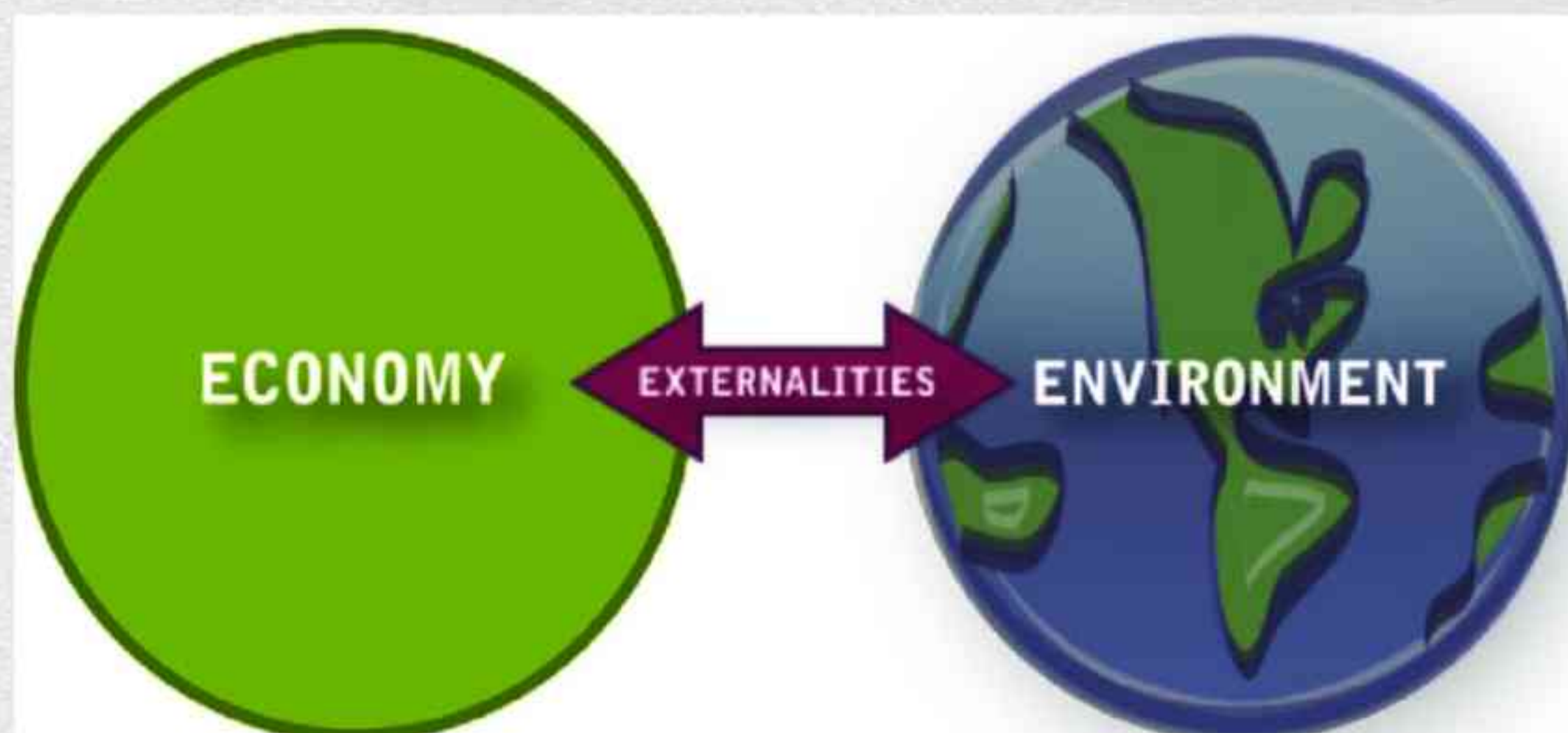
Its relevance has risen in the 21st century owing to the increasing climatic adversities across the globe.

Global warming, ozone layer depletion, acidification of oceans, and rising sea levels have an enduring impact on the general public. Land degradation and biodiversity loss also lead to environmental destruction and cause havoc in the lives of natives residing in far corners of the planet. Contemporary citizens enjoy a luxurious life, have unnecessary demands, and waste abundant natural resources. Incessant demands and the living style of people cause extreme destruction to the planet. Thus eco-friendly policies are formulated to create a sustainable environment for everyone. At the same time, it is the responsibility of people to take the necessary initiatives to curb pollution levels. Food safety and adequacy is also a prominent component of environmental economics.

Environmental Economics



Food adequacy further connects to one of the most pivotal socio-economic causes- poverty. Inequity in distributing resources and wealth is a critical subject studied by economists. Government and environmental economists collectively work on policies that benefit the poverty-driven sectors. Is there any parallel connection and dependency between them? So far 21st century has witnessed some treacherous calamities and pandemics. Poor and marginalized sections of society are directly prone to offending nature. They lose their habitats, earn sources, and lack basic amenities. Government aid is not able to benefit those who are in ardent need. Polluting land, air, and water force people to leave their employment sources like fishing, farming, etc. Pollution even reduces the productivity of the work population. It has a massive impact on the revenue incurred apart from affecting the productivity of individuals. Due to excessive pollution in metro cities, many businesses and industries unwillingly shut down for some time which has a dreadful impact on the economy. Innumerable job sectors and industries have witnessed a considerable downfall in their outcomes owing to vulnerable environmental conditions. Environmental economics is a big concern of political debate and public resilience. Many citizens residing in under-developing countries suffer from natural hardships like cyclones, tsunamis, avalanches, and mudslides.



Many people are rendered unemployed due to extreme losses faced in business and the downfall in the tourism sector. Excessive development in top-notch nations is resulting in their hardships and misfortune. COP26 conducted recently in Glasgow witnessed the discussion on this issue. The conference was enthralled with adapting to the new policies besides calculating the loss and damage caused by previous decisions of different governments. Innumerable climate summits and international treaties on climate change have taken place in the preceding decades, but are they fulfilling the real purpose of saving the globe? Zillions of resources and finance are spent to organize such international events, but are the funds adequate? And even if they allocate sufficient funds to the cause, are they invested appropriately? We have several questions about environmental policies and initiatives, but are they constructive? The most suitable solution for reducing the damage done to the planet is to regulate pollution levels. By imposing taxes and tariffs on excessive pollution caused by prominent industries, governments can control the damage done to nature. In addition, regulatory checks and imposing quotas on the manufacturing industries can be beneficial.

Governments should keep stringent control on working industries and check whether their daily operations are hampering the environment. Apart from regulations, the government should offer to counsel and give proper direction to the industries to define eco-friendly strategies. Rapid improvement in technology and allied fields has become a big-time fascination for many researchers and environmental scientists. New technologies should be more ecological and generated with minimum plastic and harmful resources. Even the results and wastes of preparing these technological products should be eco-friendly. Consumers should also prefer buying green products produced by using unpolluting technology. Immediate measures are required to control global warming and reduce the hole in the ozone layer. The discrete efforts of the government will do no good unless the citizens show active participation and interest. Citizens need to reflect on their actions and decide whether their doings are not further vandalizing the planet. How valuable is environmental economics in the future? In the initial years of this century, most people have realized the importance and need for keeping a regular check on policies and technologies before putting them into action.

Governments shall not refrain from experimenting with older notions and bring necessary reforms in current conventions for the betterment of society. Also, citizens and authorities need to converge to escort the best possible result for all.



IMPORTANCE OF STATISTICS IN OUR LIVES

By: Kiran Kumari (1st year)



Statistics is a topic that has never really been pondered about until now. Thus far, I never acknowledged the importance of statistics in our daily lives. It is very important, beneficial, and interesting to learn about statistics. It was when I researched how useful statistics are, I realized it opens a whole new world for us. It helps us understand the way we live as humans and why we live that way. It's beneficial for us to know about ourselves.

With the help of statistics, we can gain a new perspective, help to combat crime, and see how the world has developed.

There is so much that can benefit from statistics. It will continue to surprise, innovate, and monitor the world. The world can become a safer and healthier place if we continue to make use of statistics the right way.

I've learned through statistics that we can make sense of the world.

We can understand the world that is around us just by using statistics. We can get knowledge by processing the recorded numbers and graphs.

Many people don't like to admit how serviceable statistics are. This is because it reveals the truth of what statistics mean to us.

It keeps us informed about what is happening in the world around us. Statistics are so major today because we live in a world full of data, and most of this data is determined mathematically with the help of statistics. Thus, statistics are very important in our lives.

STATISTICS AND INDIA

-By: Parul Segan (1st Year)

Statistics have been an essential tool in human civilization for centuries, predating recorded history. The roots of the word "statistics" can be traced back to ancient Rome, Italy, and Germany, where it was derived from the terms "status," "Statista," and "statistics."

Governments in ancient times recognized the importance of collecting data on population and wealth for use in policymaking and taxation. As a result, the concept of statism was initially limited to political affairs, and statistics became synonymous with the political state.

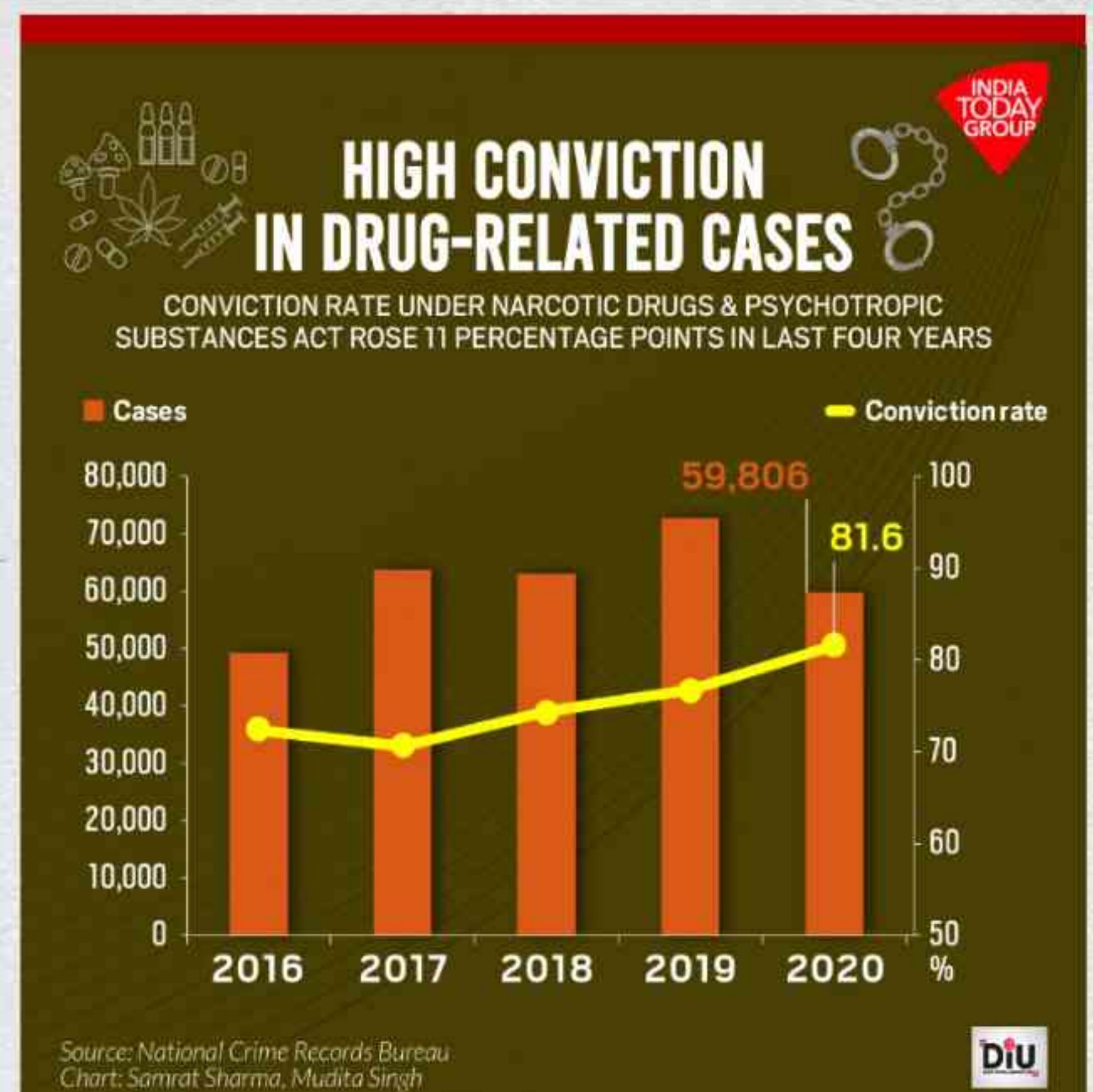
India has a rich history of using statistics, dating back to ancient times. The earliest known references to data collection can be found in Mahabharat. The Maurya Empire, during the reign of Chandra Gupta Maurya, and the Mughal Empire, during the reign of Akbar, also had well-established data collection systems. Two comprehensive certifications, "KAUTILYA ARTHSHASTRA" and "AINA-E-AKBARI," were also developed during this time.

While Indians had a strong understanding of statistics, changes were made under British rule, as Western excitement for science and experimentation grew. However, with the rise of Indian independence, statistics became a powerful tool for the nation's growth and development.

Earliest known references to data collection can be found in Mahabharat.

India boasts of many great statisticians, including Prasanta Chandra Mahalanobis, known as the father of Indian statistics, and P.V. Sukhatme in sample surveys. J.N. Srivastava has made significant contributions to the design of agricultural experiments, Calyampudi Radhakrishna Rao in statistical inference, and Debrata Basu and KC Sreedharan Pillai in other areas.

Over time, statistics have evolved from being used exclusively in political issues to being used in all areas of life, including business, finance, healthcare, and more. Today, statistics are an indispensable tool in decision-making, and their importance continues to grow with the rise of big data and machine learning.



ROLE OF STATISTICS IN DATA MINING

-By: Suramya Dinkar (2nd year)

In the words of H. G. Wells, "Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write."

But why are statistics required? What we recognize is knowledge. Statistics are the language of knowledge. Statistics are regarded as rough recordings rather than information in and of themselves. The following is the sequence from statistics to information: from information to facts (facts become records when they become relevant to the decision problem); from information to records (facts become records when the records can help them); and finally, from records to knowledge (information turns out to be knowledge whilst they are used within the successful finishing touch of the decision process).

Data mining refers to extracting or mining information from large amounts of statistics.

Data collection arose from the desire to base expertise on a scientific basis. This necessitated following the legal principles of likelihood, developing metrics for information houses and linkages, and so on.

Data mining refers to extracting or mining information from large amounts of statistics. In other words, record mining is the science, art, and era of coming across large and complicated statistical bodies to discover beneficial patterns. In data mining, every condition of things may be studied using one of two approaches:

- Statistical analysis: In statistics, records are accrued, analyzed, explored, and provided to become aware of patterns and trends. Alternately, it is called quantitative evaluation.
- Non-statistical analysis: This analysis provides generalized information and includes sound, still snapshots, and shifting photos.

We think about data mining because of the process of identifying legitimate, novel, doubtlessly useful, and, in the end, understandable styles or fashions in information to make vital commercial enterprise decisions. "Valid" in the sense that the patterns persist in general, "new" in the sense that we did not recognize the sample previously, and "understandable" in the sense that we will analyze and identify the styles.

"Theoreticians and practitioners are always looking for stepped-forward strategies to make the procedure more efficient, cost-effective, and correct."

Subsequently, like statistics, data mining isn't always the simplest modelling and prediction, nor is it a product that can be bought, but a whole hassle-fixing cycle or procedure that should be mastered via group effort. The primary part of data mining is concerned with the evaluation of records and the use of software strategies for finding patterns and regularities in sets of data. It is the PC that's responsible for locating the patterns by figuring out the underlying regulations and features inside the statistics.

The evaluation method starts with a set of information and makes use of a technique to increase the most reliable representation of the shape of the records at some point in which era information is obtained. Once the information has been acquired, it will be extended to larger units of data, working on the idea that the larger fact set has a shape much like the sample records. This is analogous to a mining operation where large amounts of low-grade materials are sifted through to locate something of value.

The field of data mining, like information, concerns itself with "learning from statistics" or "turning information into records." It's far more critical to notice that data mining can analyze statistics—that information is fundamental to what data mining is trying to acquire.

There may be the possibility of an immensely profitable synergy between data miners and statisticians. Data mining and statistics will unavoidably develop closer to each other shortly because statistics mining will not emerge as a know-how discovery without statistical questioning, and records will not be capable of being successful on large and complicated datasets without information mining approaches.



THE USE OF STATISTICS IN BUSINESS DECISION-MAKING

By: Gurleen Kaur (2nd year)

The utilization of statistics is crucial in the decision-making process of businesses as it enables them to obtain and evaluate data for making well-informed decisions. In the modern era of data analysis, it has become imperative for enterprises to utilize statistical methods when making critical judgments. This helps recognize significant trends, correlations, and patterns in the data that can lead to enhanced decision-making capabilities.

Predictions of sales, revenues, and other significant metrics can be made using statistics.

Market research is a prominent application of statistics for business decision-making. To scrutinize information gathered from surveys, focus groups, and alternative sources, statistics play a crucial role in market research. This aids companies in gaining a deeper understanding of their clientele, encompassing their liking, purchasing patterns, and demographic details. The knowledge gained can aid in making well-informed judgments regarding marketing tactics, product advancement, and various other commercial undertakings.

An illustration of this would be a corporation utilizing statistical techniques to identify the age range, gender, and earnings of its intended market. The given details hold significant value in creating marketing strategies that attract specific groups of people. For example, social media advertisements could be utilized to lure in younger customers, whilst tailored email marketing could target individuals with high earnings.

Predictions of sales, revenues, and other significant metrics can be made using statistics. Through the examination of records, corporations can establish patterns that anticipate upcoming movements and enable them to strategize their activities suitably. This can prove to be particularly advantageous for businesses operating in industries with seasonal demand, as their sales and income may experience variations over the course of the year.

As an example, statistical analysis could be employed by a corporation to predict the anticipated request for their merchandise in the festive period. Using this

analysis, the company can formulate astute strategies concerning production levels, inventory control, and marketing operations to guarantee meeting demand and optimizing sales. Statistics play an essential role not only in market research and forecasting but also in ensuring quality control. By employing statistical process control strategies, it is possible to observe production procedures and guarantee compliance with appropriate parameters. Examining data obtained during the manufacturing process enables enterprises to detect flaws and other concerns that could impact the caliber of their products.

An instance where statistical process control can be applied is in a company's supervision of the temperature and humidity conditions while manufacturing a specific item. In case the levels deviate from the acceptance criteria, the company can modify its process to adhere to quality standards and ensure reliable products.

Risk analysis can benefit from the utilization of statistics. Statistical analysis can be employed by enterprises to assess the possibility of a specific occurrence and the risk involved in new investments. Through the analysis of investment or event data, enterprises can make well-informed judgments concerning the appropriate course of action.

An instance of this would be a business employing statistical analysis to assess the peril of launching a new product. The organization can make well-informed choices about the product's launch and market positioning by studying consumer demand data, market trends, and competitors.

Performance analysis relies significantly on the utilization of statistics. The scrutiny of monetary records, sales figures, and other measures makes it feasible for organizations to assess the efficiency of their staff, divisions, and the enterprise collectively. This examination may aid in pinpointing places where enhancements can be implemented and formulating plans to achieve peak performance.

To sum up, figures play a crucial role in enabling enterprises to make well-informed judgments. Through the utilization of statistical analysis to gather and scrutinize data, enterprises can unveil trends, patterns, and interconnections that enhance their decision-making process. As data accessibility rises, the significance of statistics in business determinations will persist.



ENVIRONMENTAL SCIENCE: ANALYSING CLIMATE & PREDICTING NATURAL DISASTERS

- By: Khushi Pandey (2nd year)

Environmental science focuses the natural environment, its ecosystems, and its interaction with human beings.

In particular, Environmental scientists are interested in climate data and how can it be used to predict natural disasters.

Here, we will take a look at how climate data is analyzed and used to predict natural disasters.

Climate Modeling, uses computer models to predict future weather trends and potential natural disasters.

Climate change has become a significant issue in recent years due to its potential impact on the environment and human society. The increase in global temperatures and pollution has resulted in climate conditions that are more extreme and unpredictable, leading to more frequent natural disasters such as hurricanes, earthquakes, floods, and droughts. Environmental scientists use climate data to analyze changes in weather patterns and identify areas at risk for these natural disasters. Climate data analysis starts with collecting data and studying weather patterns over time. This data can be collected from a variety of sources like weather stations, satellites, and buoys. Analyzing climate data involves reviewing trends in weather patterns and identifying any changes over time. This process, known as Climate Modeling, uses computer models to predict future weather trends and potential natural disasters. For instance, when predicting tropical cyclones during hurricane season, scientists can use climate models to estimate the number of tropical storms that may form off the coast and in what regions they are likely to make landfall.

Environmental scientists use Climate Modeling to prepare for

natural disasters by identifying potential risks and developing contingency plans. It might include evacuation strategies or developing infrastructure that can help withstand natural disasters. For instance, cities prone to flooding should invest in building flood barriers or improving drainage systems. Environmental scientists also use climate data to analyze the impact of human activities on the environment, such as emissions from power plants, factories,

Environmental scientists also use climate data to analyze the impact of human activities on the environment, such as emissions from power plants, factories, and transportation, and confirm the areas of concern and develop strategies to reduce the impact of such. These activities contribute to climate change, which can have a devastating aftermath on ecosystems and natural habitats.

In conclusion, we can say that analyzing climate data is an essential aspect of environmental science, and it plays a critical role in predicting natural disasters. With climate change becoming an increasingly pressing issue, we can expect Environmental scientists to use climate data to identify risks and develop strategies that help alleviate their impact. We need to work together to help to reduce the consequences of natural disasters and protect our environment for future generations.



BIG DATA: WHAT GETS MEASURED GETS MANAGED

-By: Suhani Arora (2nd year)

“You can’t manage what you don’t measure.”



Consider retailing, for instance. Booksellers in physical stores could only gather enough information about their customers’ preferences through sales data to grow. But once shopping moved online, online retailers could track not only what customers bought, but also what else they looked at and how much they were influenced by promotions, reviews, and page layouts. They had more data. Before long, they created algorithms that performed better every time the customer responded to or ignored a recommendation.

More data doesn’t just allow us to see more; it also allows us to see new. It allows us to see differently. Now, the questions arise WHY BIG DATA? HOW DO YOU USE IT? In the past, when looking at small amounts of data, all we could do was think about what it would mean to understand the world. Now that we have a lot more of it, we can fundamentally achieve things that we couldn’t dream of doing before. Big data is the only way this planet will deal with its global challenges—to feed people and supply them with medical care, energy, and electricity—all because of the effective use of data.

So, to answer our previous questions, let's look at the following case study showing how big data helped plan 10,000 new LPG distribution centers across India.

In May 2016, the Ministry of Petroleum and Natural Gas launched the Pradhan Mantri Ujjwala Yojana, whose flagship scheme was to provide free LPG connections to 80 million women under the poverty line by 2020. The ministry's goal was to reach the people who needed connections the most rather than opening centers in India's wealthy or urban areas. But how could they quickly determine which locations would reach the neediest and have the greatest impact?

To meet their ends, they partnered with "SocialCops", a data intelligence company that confronts critical problems through data and works on projects that help improve governance. They used 6.4 million diverse data points to figure out where to open each new LPG center so it would have the greatest impact on improving access to clean cooking fuel. Collectively, they extracted, merged, and geocoded data about sales and the number of consumers and suppliers. Since sales data only care about profitability, they knew they had to add external data to place centers in the places with the greatest impact. They used public data to map population, affluence, infrastructure, LPG penetration, and a host of other data points. At last, with the help of their platform's intelligent algorithms, they brought all the data together and successfully pinpointed the exact locations of new LPG centers, making them accessible to everyone. One of the most impressive areas where this concept has been taking place is machine learning, a branch of artificial intelligence.

The general idea is that instead of instructing the system what to do, we simply give it all the data, and it figures out the problem itself.

Arthur Samuel, a scientist who used to work at IBM, wrote a program so he could play checkers with the computer. He won every time. That is because where the computer only knew the legal moves, Arthur Samuel knew strategy. So, he wrote a small sub-program alongside the initial program that calculated the probability that a given board configuration would likely lead to a winning or losing board after every move. He won each time. Then he left the computer to play itself. When it played itself, it collected more data. When it collected more data, it increased the accuracy of its prediction. Now, when Arthur Samuel played, he lost each time. And that is how Arthur Samuel created a machine that surpassed his abilities in a task that he taught it.

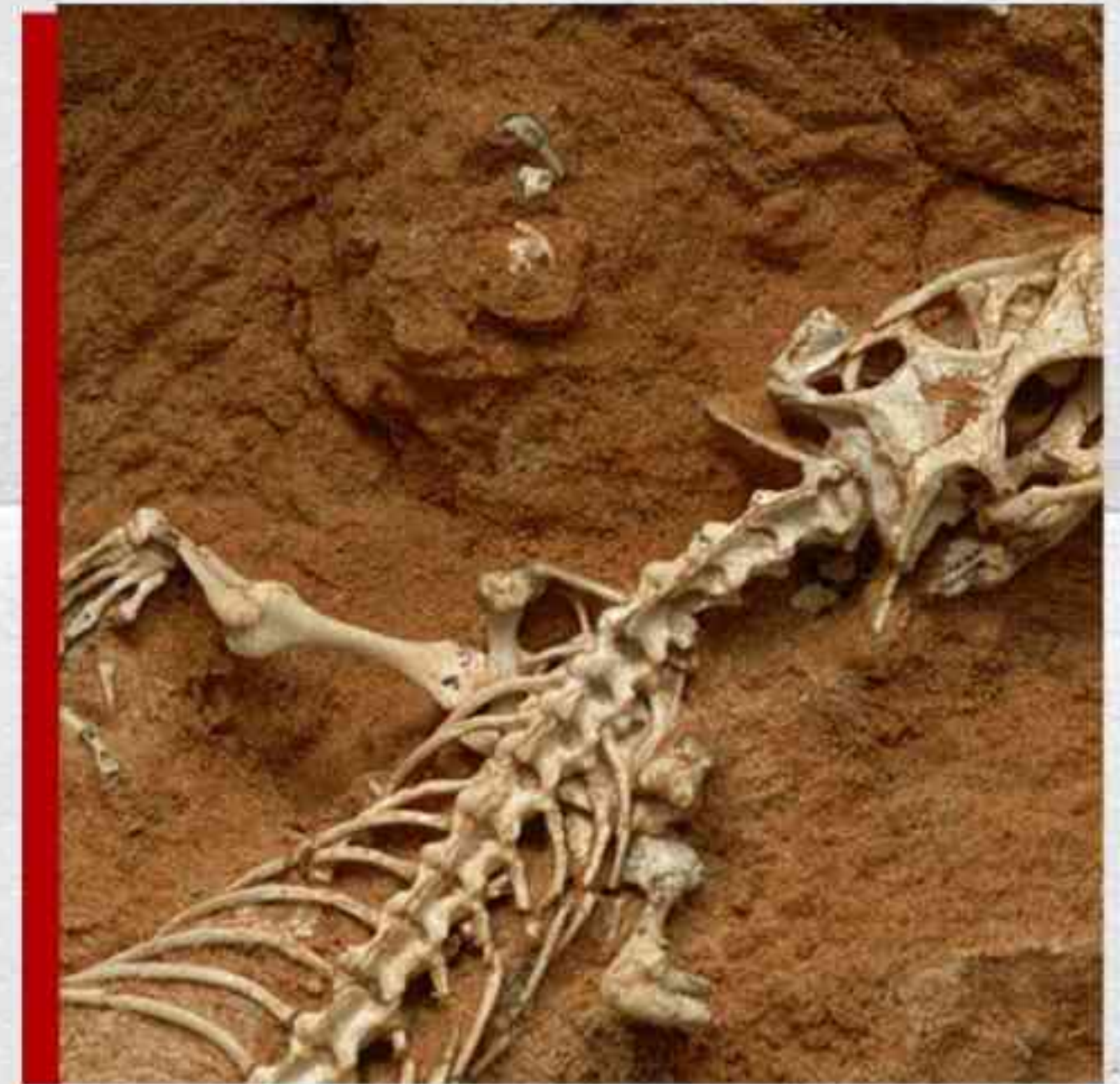
This idea of machine learning is everywhere: search engines, Amazon's personalization algorithm, computer translations, Google Maps, voice recognition systems, self-driving cars, and so much more.

In conclusion, data-driven decisions tend to be better decisions. People will either embrace it or be overthrown by others who do.



USE OF STATISTICS IN PALEONTOLOGY

-By: Ananya Puri (2nd year)



I'm sure most of us have a faint recollection of the term "paleontology" by Ross constantly mentioning it to friends and having numerous jabs taken at him for loving dinosaur fossils so passionately.

Coming to what paleontology is, it is the study of the evolution of living beings, human or not, along with their activity patterns and analysis of their environment through fossilized remains.

Now, the question arises, what is the use of statistics in paleontology? Turns out, they go hand in hand.

In paleontology, the foundation of the analysis of remains is that there needs to be a suitable experiment design so that we can draw valid conclusions about the observations. Naturally, when we talk about picking a suitable experiment design, we imply that we need multiple or replicated observations since the reliability of one data point is quite low. Also, one data point can never be representative of a continuous period of evolution since the factors are not static rather, they are constantly changing even in a matter of a couple of hours.

Having multiple observations aids in identifying or measuring the bias and error (both sampling error and systematic error). However, there is a very careful balance that needs to be struck, too few observations will result in bias and very little statistical confidence, on the other hand, too many observations are a waste of your time and resources.

Paleontologists normally collect fossil assemblages from all excavation sites and maintain a record of the same known as a fossil record, this process is

Risk analysis can benefit from the utilization of statistics.

very important as after forming a comprehensive database for their assemblages all further excavation findings are tested against this fossil record. For example, Dr J Bret Benningham, professor of geology and paleontology, explained how he collected and maintained his fossil record by saying,

An illustration of this would be a corporation utilizing statistical techniques to identify the age range, gender, and earnings of its intended market. The given details hold significant value in creating marketing strategies that attract specific groups of people. For example, social media advertisements could be utilized to lure in younger customers, whilst tailored email marketing could target individuals with high earnings.

Market research is a prominent “For several years I had been leading my undergraduate students on field trips to a pair of well-known fossil-collecting sites in central New Jersey, along the banks of Big Brook and Poricy Brook. Here, muddy sands of the Navesink Formation were deposited on the seafloor of the inner continental shelf during the Late Cretaceous Period, This is exactly the kind of fossil assemblage that paleontologists would expect to have been time-averaged and was thus an ideal fossil layer in which to test my ideas about patchiness and sampling.”

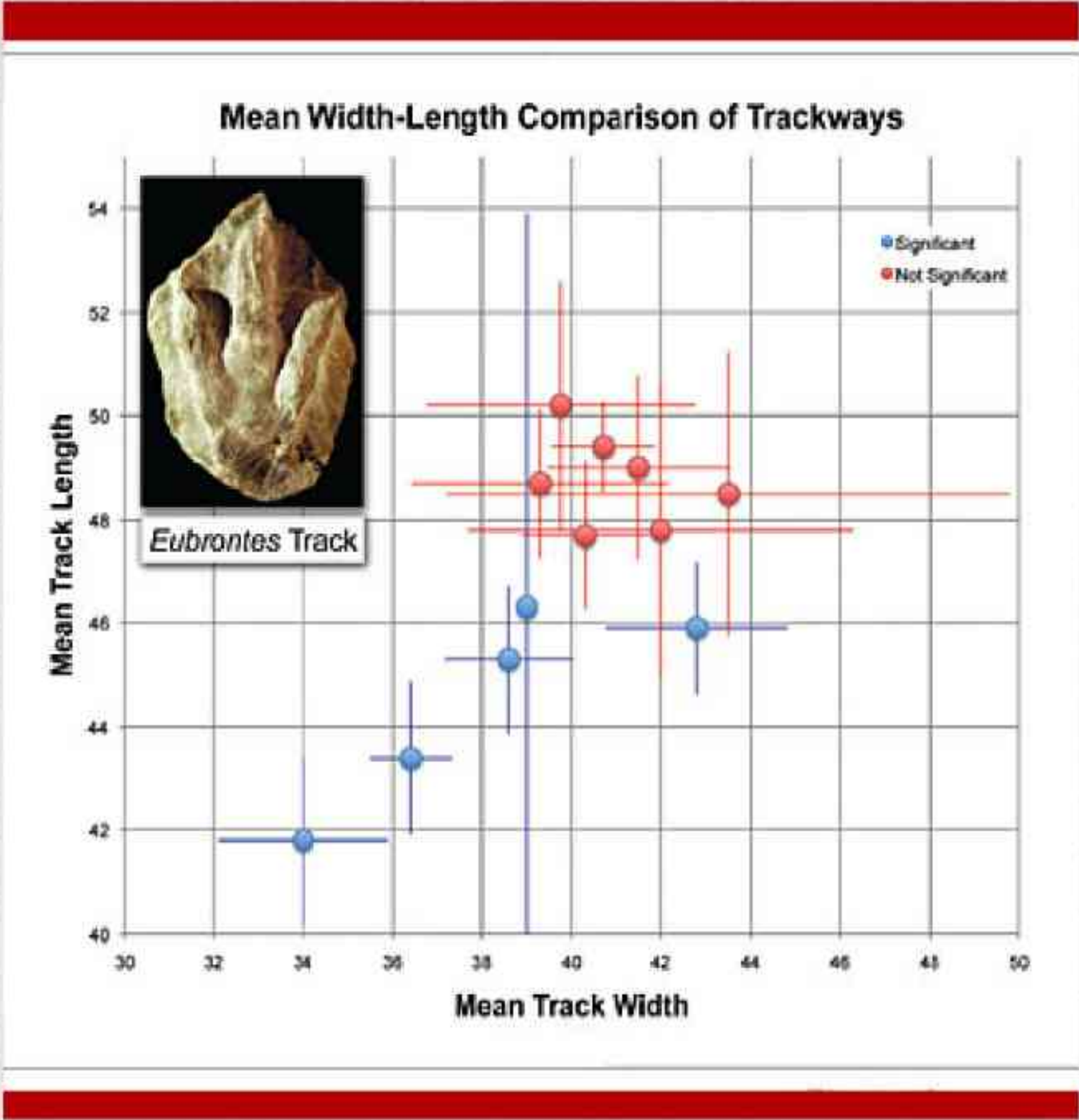
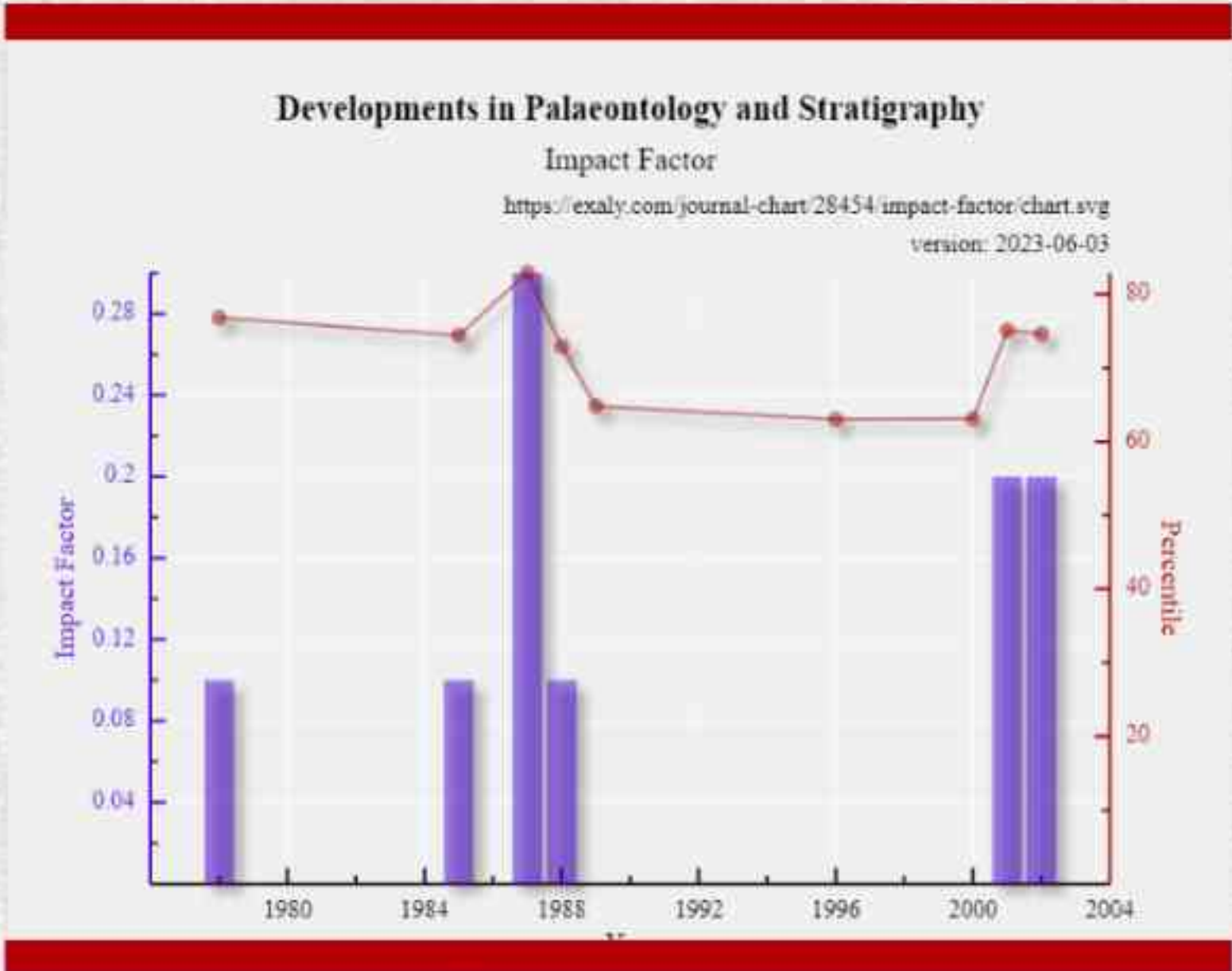
Building on this, the concern of most paleontologists like Dr Benningham today is the incompleteness of fossil records and how using statistics it has been measured that only 28% of dinosaurs as well as other genera have been studied.

Furthermore, it is with the use of statistics this incompleteness can be overcome since statistics can be used to identify the missing values in a fossil record, and find those missing values and variables, identify the peaks and troughs of a specific evolution period, and help us to connect the dots of certain evolution phenomena which may seem unrelated which would help paleontologists to better understand what events took place, how and why.

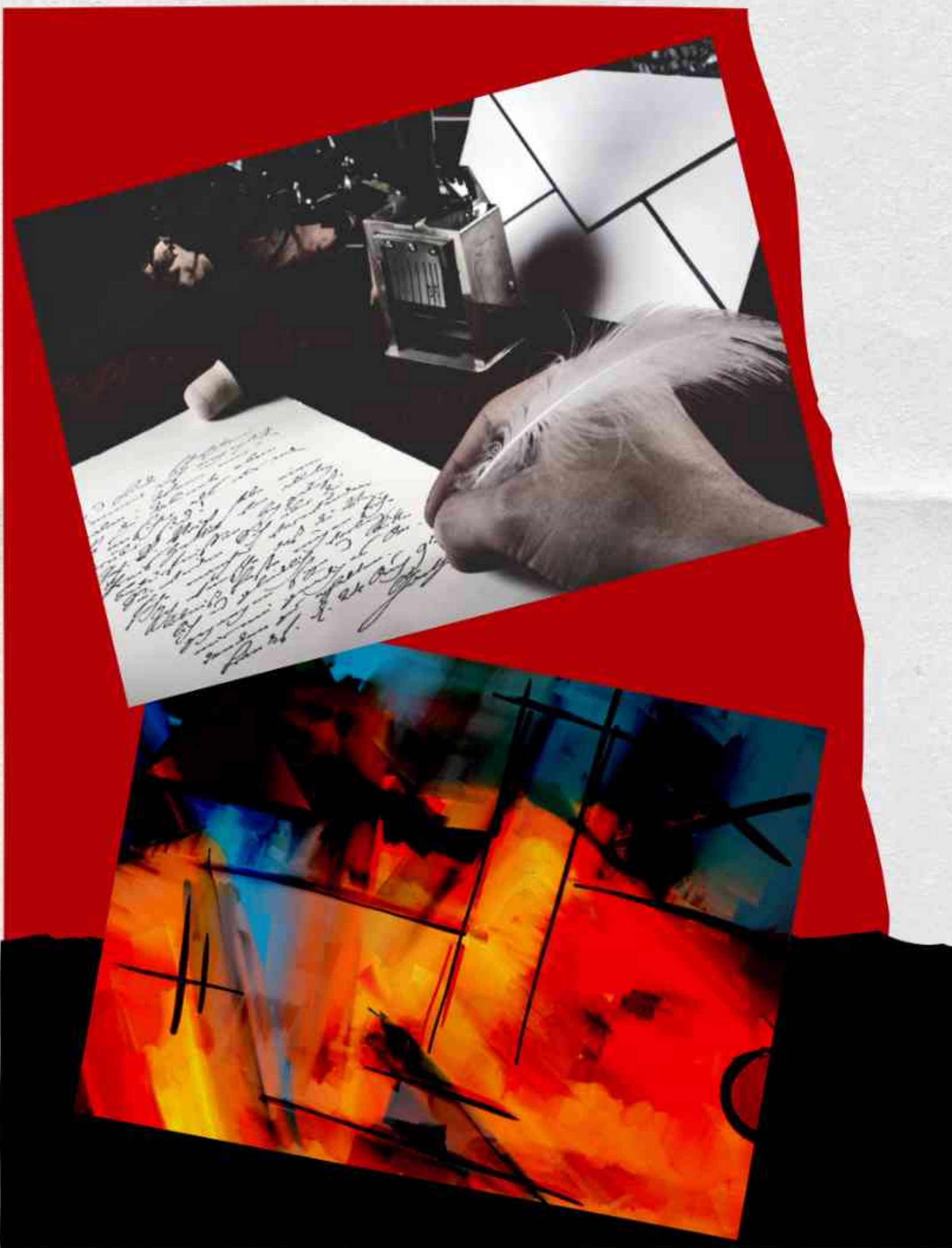
Risk analysis can benefit from the utilization of statistics. Statistical analysis can be employed by enterprises to assess the possibility of a specific occurrence and the risk involved in new investments. Through the analysis of investment or event data, enterprises can make well-informed judgments concerning the appropriate course of action.

A very good example of this can also be the prolonged research about the extinction of dinosaurs and other species which took place at the end of the Cretaceous era (66 million years ago) The challenge of explaining this huge loss of biological diversity has been the focus of geologists and paleontologists around the world.

Their expertise in using statistical tools and knowledge of evolutionary patterns helps them frame an answer to this question using fossil bone, tooth fragments as well as soil and rock samples which are a remarkable achievement of scientific observation and statistical analysis.



CREATIVE SECTION



POETRY SECTION

New Delhi, 2022-23

Volume 03

THE STAIRS TO HEAVEN

By: Yashita Kumari (First Year)



The stairs to heaven
 The ones which I came across
 just a while ago
 The ones which I climbed and
 found flower petals all the way
 There you were sitting on that
 swing
 That was all white
 The sky was all pink as if I was
 living in a dream
 Ohh it felt so wholesome
 Meeting you once again in a
 peaceful place
 And I was smiling while walking
 towards your way
 You passed on a smile and
 hugged me tight
 And we talked for hours and
 hours
 It all seemed alright
 I said all that I had in my mind

From the time you left home
 With the promise that you will be
 back
 I know you fought till the end
 To get back to our normal life
 I know you tried your level best
 To recover and make it all fine
 But god had some other plans
 And you were left with no choice
 but to go ahead
 But right now meeting you after
 such a long time
 I just wanna hug you tight
 And stop the time so that we can
 stay together for a while
 Before this blissful dream comes
 to an end
 And the realisation occupies my
 head
 That no matter how much I weep
 I can never get you back in my
 life

MIND

By: Yashita Kumari (First Year)

Sometimes keep you in
 delusion that it's all fine,
 Sometimes makes you realise
 that it's all a made up story
 and nothing's right,
 The reality seems to be right
 in front of your eyes,
 But it all seems so indifferent
 You are lost in your own world
 Filled with worldly pleasures
 and unrealistic desires
 Trying to divert your mind
 every now and then
 Just to feel a lil fine
 But the mind seems to have its
 own games to play



Sometimes it reminds you of
 all those things you are willing
 to forget
 Sometimes it makes you take
 tough decisions
 That makes you feel like you
 are gonna crack
 Even after knowing the reality
 You feel like living in much of
 a fantasy
 Because it all feels perfectly
 alright
 Because the reality makes you
 feel as if you aren't fine
 And there's a whole battalion
 out there
 To fight with you and make
 you feel not at all fine..

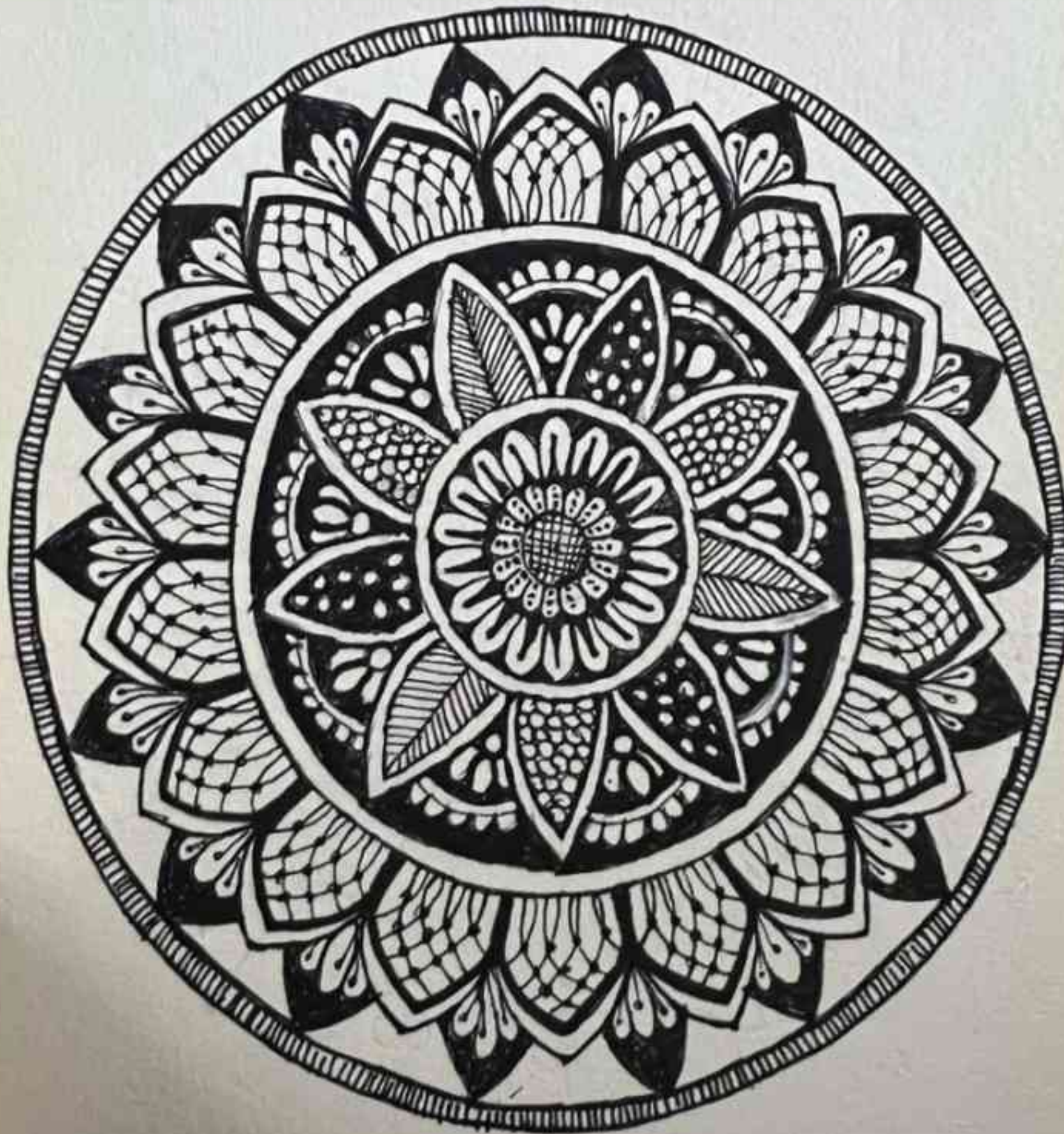
ARTWORK SECTION

New Delhi, 2022-23

Volume 03

MANDALA ART

Ms. Prabhsharan Kaur





FUIJI KAZE

Ayesha Rahil - 3rd Year

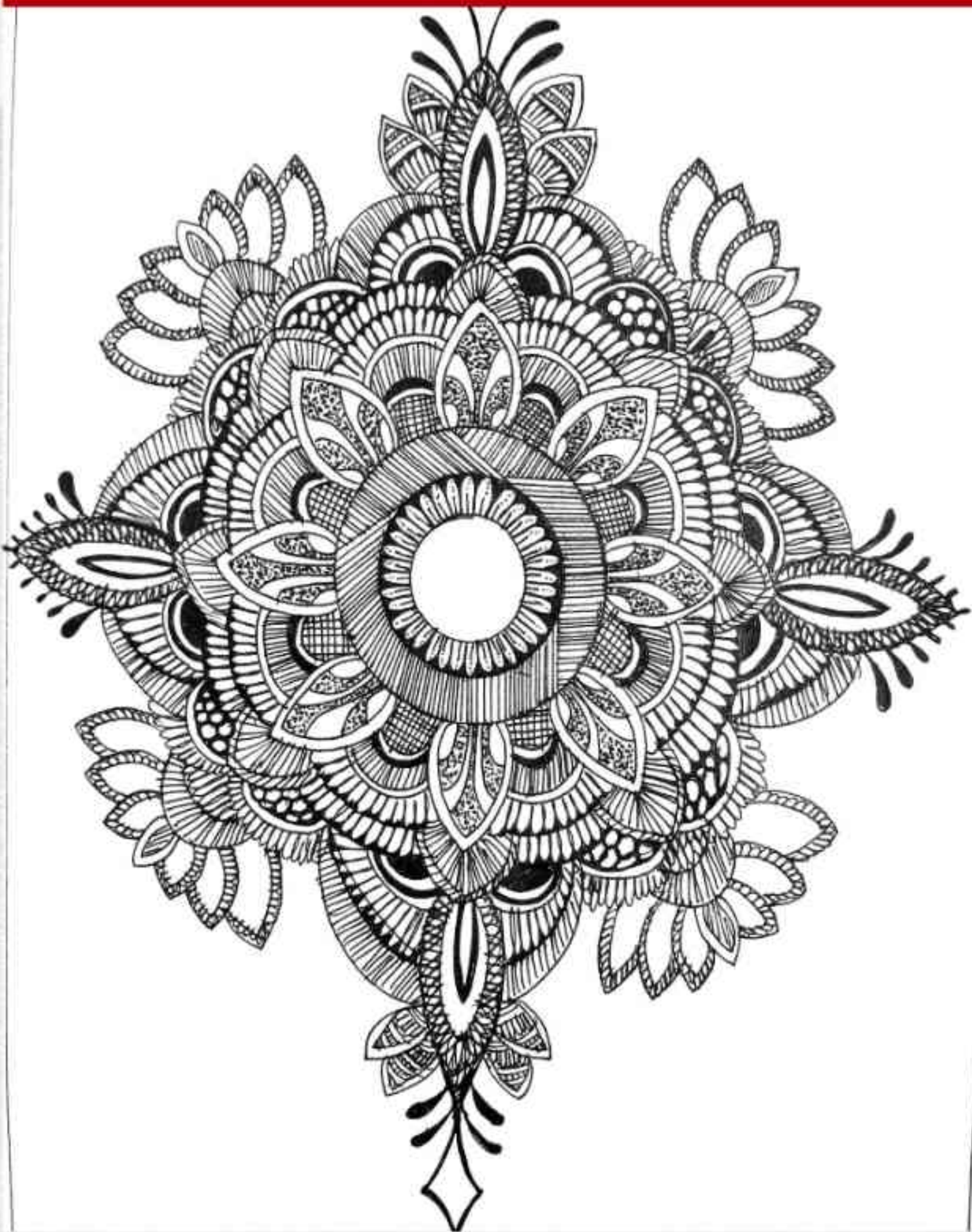
RANGOLI

Vaishnavi Dhingra - 2nd Year



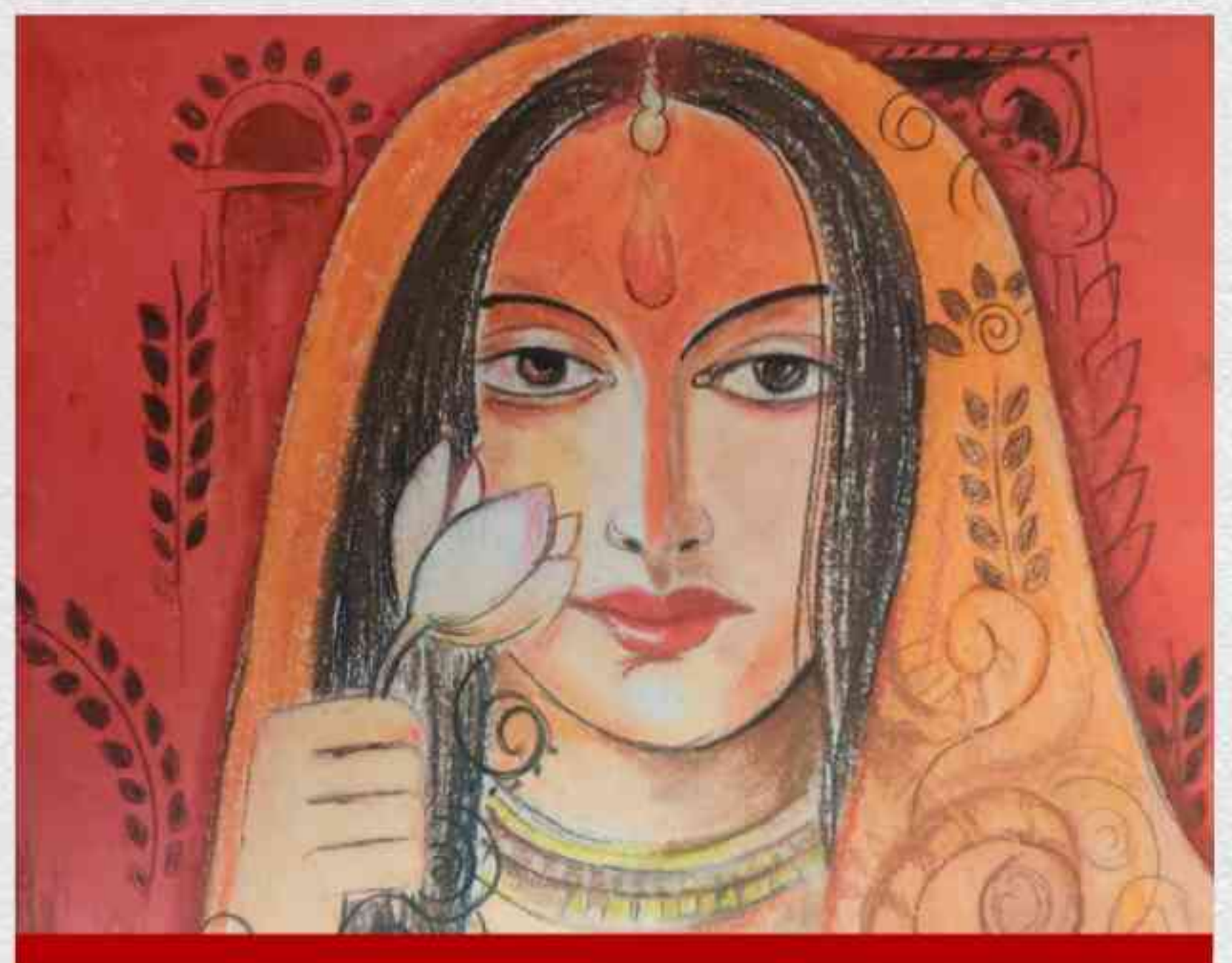
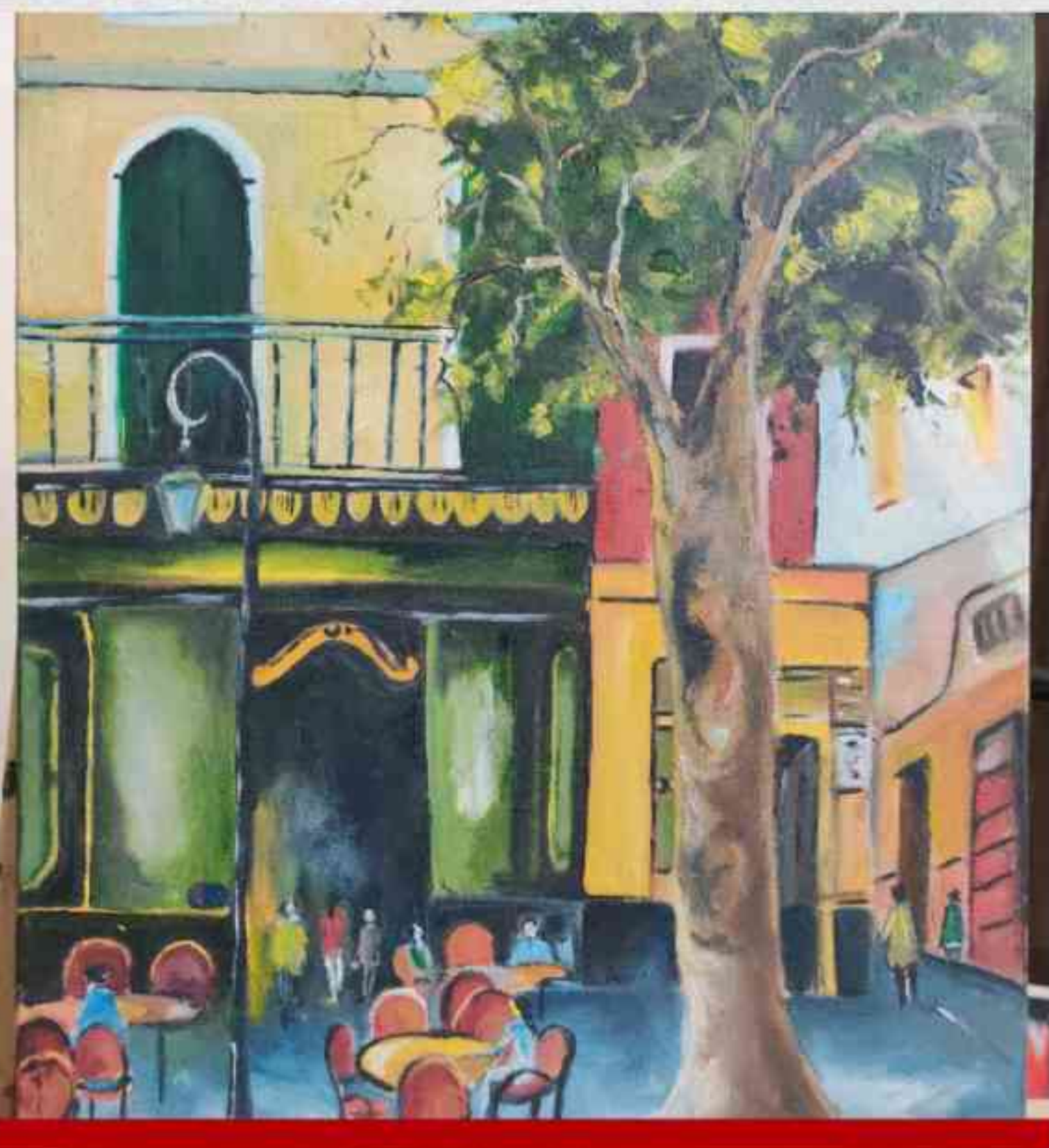
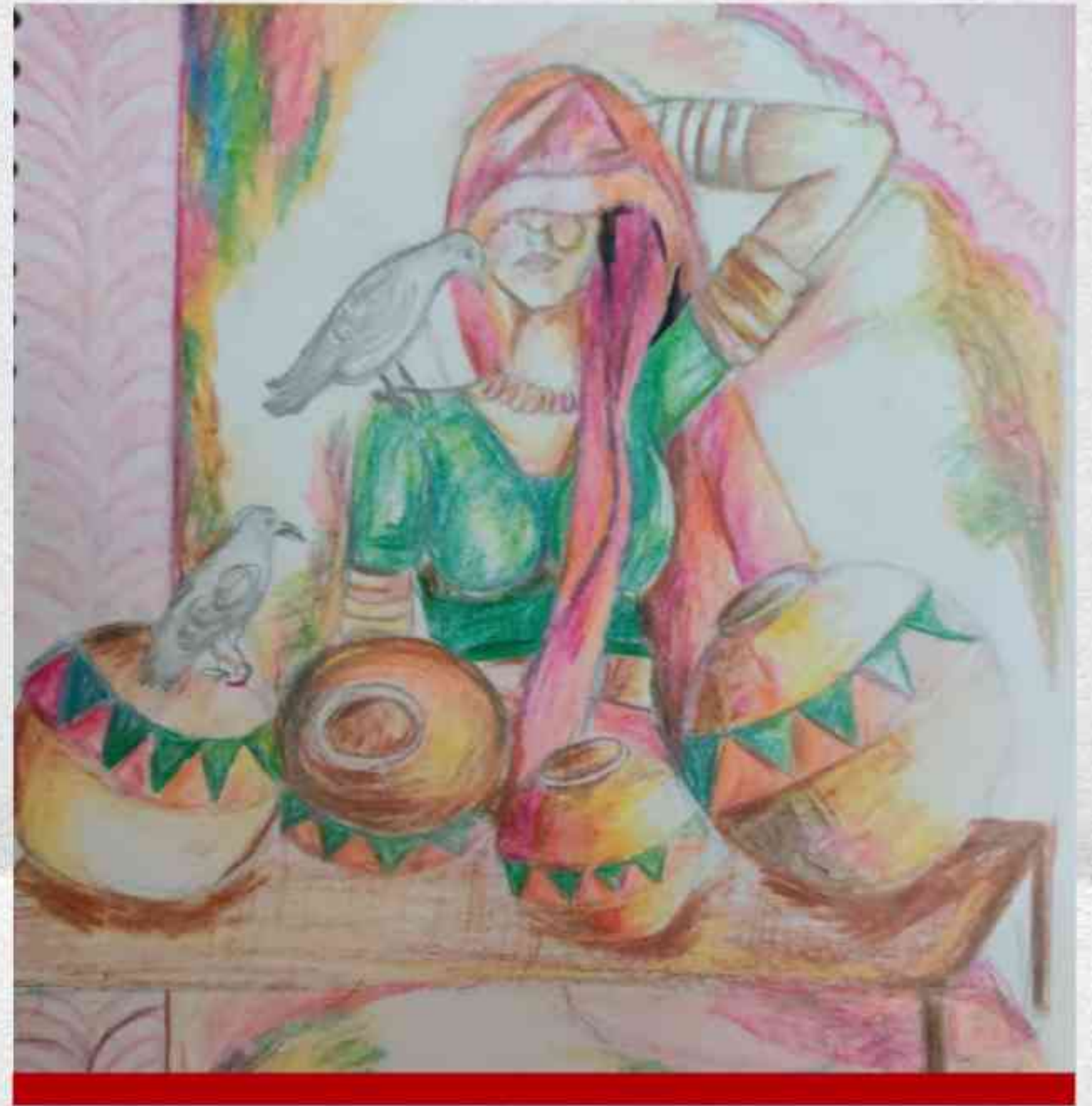
LORD KRISHNA

Vanshika Garg - 2nd Year



BEAUTY

Preet Shukla - 2nd Year



SANKHYIKI DAILY

STUDENT SECTION



BATCH 2020-23

New Delhi, 2022-23

Volume 03



DRISHTI ARORA

Make today amazing.



CHHAVI KAINTH

I didn't know these captions were due today.



HARNEET KAUR

Don't settle for average. Bring your best to the moment. Whether it fails or succeeds, at least you gave all you had.



POORVI KAPOOR

Sab fun hai



VRINDA SHARMA

Confidence is Silent. Insecurities are loud.



DAVLEEN KAUR

Ugh! Can't even 'me and who' in this college.



PARUL GARG

Whatever makes you uncomfortable is your biggest opportunity for growth. -Bryant McGill



SALONI JAIN

"There's always been a rainbow hangin' over your head."



RASHMI OJHA

So long, MSCW.



HARSHA GUPTA

She remembered who she was and the game changed!



YASHIKA JAIN

Passion drives to places where I never imagined myself to be !!



GAGANDEEP KAUR

"Be yourself, everyone else is already taken."



ISHITA SINDHWANI

The past is a place of learning not a place of living.



JASLEEN KAUR

You are born to be real, not to be perfect.



SANJANA JAIN

Act as if what you do makes a difference.



HARSHITA JOSHI

To shine your brightest light is to be who you truly are."

BATCH 2020-23

New Delhi, 2022-23

Volume 03



MANSI MOHINDRU

Value has a Value if its Value is Valued.



AKANKSHA GOEL

Every moment should be celebrated.



ANANYA KHANDURI

With freedom, books and flowers and the moon, who could not be happy? ~Oscar Wilde



MRIGAKSHI KHAJURIA

Famous last words: "Nah this won't come up in the exam"



JIYA MENDIRATTA

Life is all about enjoyment.



KAWAL KAUR

Taking one day at a time.



GUNJAN GROVER

The greatest weapon against stress is our ability to choose one thought over another.



ANKITA BHANDARI

Your thoughts become words. Keep it together



NANDINI KARMAKAR

It is you who can make it better.



AYESHA RAHIL AHMED

Believe in yourself!



AISHWARYA GABA

Set your heart free and let your spirit fly, break the barriers and you shall soar high!



TANVI ANAND

Embrace the glorious mess that you are!



MUSKAN HASHIM

See? She wasn't bragging. She really did go to college with me.



SIDAK KAUR

Don't settle for average!



PALAK KHATURIA

The greatest glory in living lies not in never falling, but in rising every time we fall.



JAGRITI SUNEJA

If today you're little better than you were yesterday than that's enough.....

BATCH 2020-23

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SHREYA JAIN

None of my assignments are done but I sure am.



ANSHUL SHARMA

Mindset is everything.



JANVI AGGARWAL

Had an amazing college life experience with the best of faculties in MSCW, grateful for everything!



HARLEEN KAUR

Always remember, you are bigger than your problems.



KUMUD SHARMA

I am gonna go cry in the bathroom, peace out homies



KHYATI SUCHCHAL

Ugh! Can't even 'me and who' in this college.



NAVDEEP KAUR

Either write something worth reading or do something worth writing.



SHRUTI SHARMA

Priorities change and so do we.



VANSHIKA MISHRA

*किन्नरों में उलझा, उलझा जग सारा
गरदिश में चमके वो टूटा तारा |*



ARUSHI SHARMA

And yet there's so much to be grateful for and so much love to give.



HEMA GUPTA

Let us be grateful to people who make us happy, they are the charming gardeners who make our souls blossom.



SUNITI GUPTA

All I want is to have the world dominated by women. Because men will not leave their position, so why demand equality?



RITIKA SUNDRANI

No matter how tough may seem the climb, keep moving. Keep fighting.



CHESTHA GARG

You gotta find the good in them because they'll always find the good in you.

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‘ A farewell is necessary before we can meet again, and meeting again, after moments or a lifetime, is certain for those who are friends. ’

– Richard Bach



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YAKSHI GOEL



KETKI AGGARWAL



ADITI BISHT



LAVANYA CHAUHAN



KANISHKA AGGARWAL



MAULI SAXENA



ANUSHKA DWIVEDI



ANANYA PURI



SAKSHI GARG



GURLEEN KAUR



SUHANI ARORA



REVANSHI VOHRA



HARSHITA DUDEJA



DEEKSHA GUPTA



JIGYASA KHURANA



SIMRANDEEP KAUR

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GURLEEN KAUR



ITI GUPTA



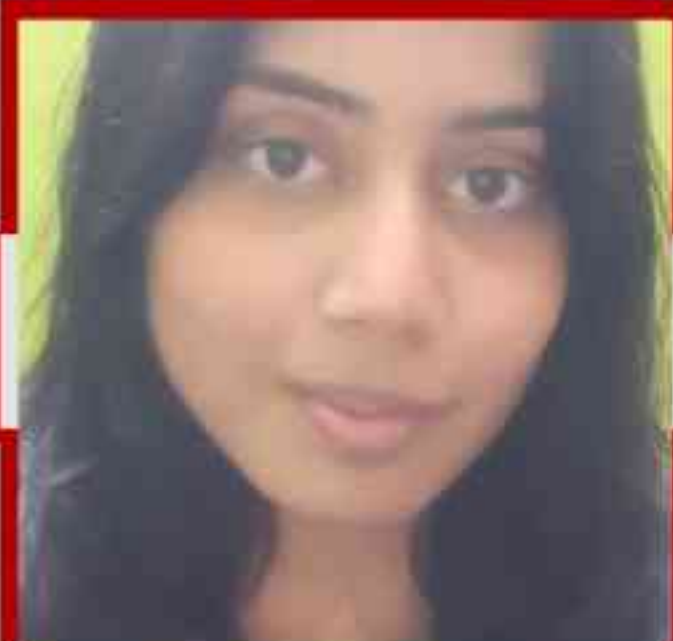
TANYA NAILWAL



NIHARIKA GARG



KAJAL



MEHAK GUPTA



POOJA NEGI



**LAKSHIKA
GROVER**



AMANJOT KAUR



PREET SHUKLA



SURAMYA DINKAR



GURLEEN KAUR



NAVYA ARORA



**SANSKRITI
KANDPAL**



**BISMANJYOT
KAUR**



**GARIMA
CHOUDARY**

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**VAISHNAVI
DHINGRA**



KHUSHI PANDEY



VANSHIKA GARG



**VANSHIKA
GOYAL**



DIYA GANDHI



**KHUSHI
CHHABRA**



**SHIVANI
AGRAWAL**



AYUSHI



MAHI SHARMA



ADITI GUPTA



MANMEET KAUR



JASDEEP KAUR



DIVJOT KAUR



SHRUTI RAWAT



PARAKH



PAVANI VERMA

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KHUSHI SHARMA



RIYA BATRA



VAISHALI JOSHI



PRIYADEEP KAUR



SUHANI KALRA



JANNAT KAUR VIJ



MEGHNA



TINA GUPTA



HIMANSHI



VRITI ANEJA



SIMARJEET KAUR



VANISHA MATHUR



KRITIKA SHARMA



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MONIKA NAGARKOTI



PRIYA MEHROTRA



YASHIKA LOHIA



ADHYA MEHROTRA



SAKSHI TIWARI



VRINDA AHUJA



PRIYA KUMARI



HIMANSHI SAXENA



SANYA AGGARWAL



AARCHI BANSAL



SRISHTI GUPTA



GIFTY KALRA



SANDHYA YADAV



NIYAZ KAUSHIKAA



RUPANSHI



RIDHI BHATT

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SAKSHI JHA



JANVI MANVA



PALAK



KHWAISH VERMA



PRIYANSHI KALRA



SHAMBHAVI VERMA



PULKITA AGGARWAL



PARIDHI SINGHANIA



KRITI SHARMA



KIRAN



NAINY AGGARWAL



ANSHU BACCHAWAT



SAKSHI TYAGI



PARUL SEGAN



YASHIKA GOYAL



NANCY THAKUR

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YASHITA



SAPNA KATHPAL



REET KAUR



TANISHA TIWARI



RAGESHREE DEY



AASHIMA GANDHI



AKANKSHA SINHA



HARSHITA



PRESIDENT'S DESK

New Delhi, 2022-23

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MESSAGE OF STATISTIKA'S PRESIDENT

It's a matter of pride to pen down a message for the third volume of Sankhyiki, the Annual magazine of department of Statistics. Keep taking little initiatives in the department and represent it in its best way.

I was the part of Statistics society for last 2 years of my college life – initially as the Secretary then as the President and have experienced the best of it. From organising virtual events to run them in the traditional (offline) way, everything was full of experiences, learning and challenges.

One of the best thing I have experienced in our department is that we were free to create any and every opportunity we want to create and our faculty was always eager to listen to our ideas and have shown us the route towards successfully executing it.



Also, the support and inspiration from the seniors, classmates and friends since the very beginning always kept me going and helped me to do my utmost for the department.

Lastly, I would like to thank all the teachers who has supported me, believed in me and have given me the responsibility to serve the department. I am grateful to lead an amazing team as the President. It taught me skills that I can use in more than just the professional area of my life. Thankyou team for all the beautiful memories. Wishing you luck for all your future endeavours. Keep taking little initiative in the department and represent it in its best way.

Regards,
Parul Garg
President 2022-23

CR'S DESK

New Delhi, 2022-23

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BEING THE CR FOR 3 YEARS

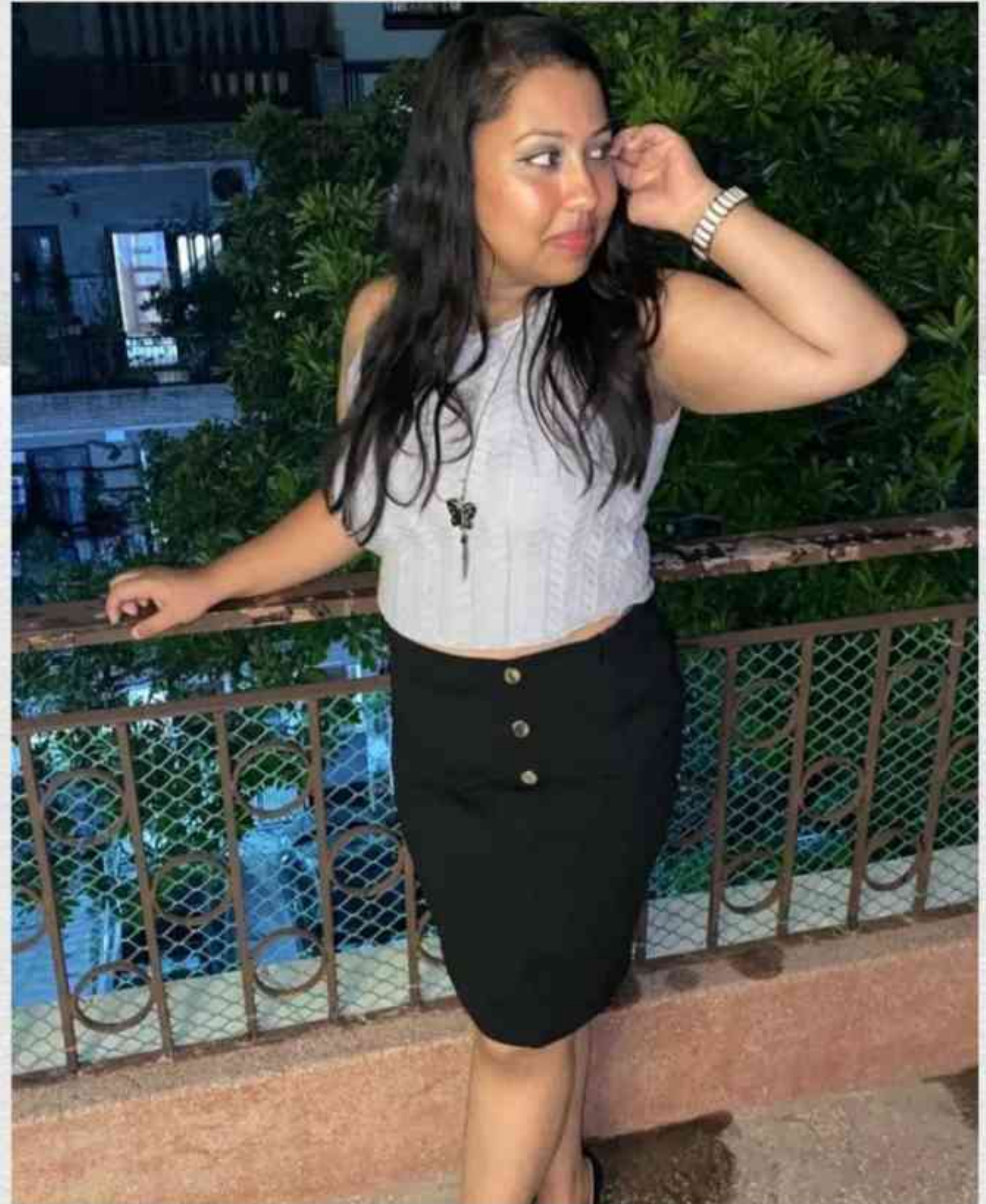
When I was made the CR on 17th November 2020, it was a feeling of pride and gave me a sense of responsibility at the same time. Being the CR bought me close to most of the students in my class and the professors as well. Since the first three semesters were in online mode so all the interactions were in digital mode.

This was a task as well as easy to handle situation since multiple tasks were doable staying at home but it was cumbersome at some point in time when extra work was to be completed since a lot of lists and communication were supposed to be made at odd hours of the day. Being the CR helped me make a great camaraderie with a lot of students but at the same time also became a responsibility to handle tough situations in the class while maintaining harmony.

There have been situations wherein the class wanted a day off and the teacher wanted to teach, so those situations were quite tricky wherein I had to actually balance both sides and find a middle path and I'm very proud that since that day I have been actually been successful in giving justice to both sides till the date.

Being the CR has taught me a lot. Right from the etiquette required to talk to professors to learning leadership qualities to representing the class at the college level to listening and finding ways out for everyone's problems to maintaining records to maintaining a good bond with classmates, juniors, and seniors to getting appreciated for everything you do and the best of all is the affection that I have been receiving right from day 1 from the professors and each and every member of the class and the department, Statistika has taught and given me all till date.

Talking about the responsibilities that were pretty tough and quite frustrating at some point of time included being told why hasn't the class come today, I wasn't able to bunk any lecture or even get distracted from the lecture since all the professors remember your name and you aren't able to get saved from it, being scolded on behalf of the class, getting calls from teachers and classmates at late night or early morning enquiring about classes etc. but even though it was tough to handle situations but it has always been my pleasure that I was holding an eminent position in the class and was able to make an eminent position in the college too while maintaining 5 societies and various courses and internships at the same time.



-Akanksha Goel

ACHIEVEMENTS

New Delhi, 2022-23

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COMPETITIONS

1. Aishwarya Gaba - 1st position in Verbal Vortex- Open mic competition of Stat-O-Math.
2. Harshita Joshi - Special mention position in National Voter Awareness Contest 2022 (Slogan Writing). Felicitated on national voters day 2023 by chief electoral Officer Delhi Ranveer Singh.
3. Vrinda Sharma - Special Mention, Turncoat Debate Competition in Saarang 2023
4. Ayesha Rahil - 1st position in the following:
 Wetlands Authority Of Delhi: Poster-Making Competition
 Maitreyi College, DU: Poster Making Competition & Maestro – Pot Painting Competition Pallav'23
 Chemosphy'23 – The Annual Inter-College Chemistry Festival organized by Radha Sairam
 Kirori Mal College, DU: Pot Painting Competition in Srishti'23 – The Annual Botanical Fest
 2nd position in Mata Sundri College For Women, DU: Vaatavaran Vikas - Best Out of Waste Competition
 3rd position in the following:
 Diya Decoration by Illuminer Counsel of MSCW, DU
 Kalindi College, DU: Chemigraphy – The Calligraphy Competition under Rasayanika'23
 Poster Making Competition by Illuminer Counsel of MSCW,DU
 Sri Aurobindo College (Morning), University of Delhi: Masterstroke - The On The Spot Thematic under Mehak'23
5. Iti Gupta - 2nd position in Kho Kho - IGNITE(Annual Sports Fest) organised by IGDTUW



SOCIETIES

1. Vrinda Sharma: President of Uddham, the Entrepreneurship Cell
2. Poorvi Kapoor: President of Parindey, the Dramatics Society
3. Chestha Garg: President of Chetanya, the Classical Dance Society
4. Chhavi Kainth: Vice-President of Chetanya, the Classical Dance Society
5. Ayesha Rahil: Vice President of Kala Society and NSS
6. Harshita Joshi: Secretary of Prayas, the Placement Cell
7. Saloni Jain: Senior Coordinator of Prayas, the Placement Cell
8. Kumud Sharma: Treasurer of Parindey, the Dramatics Society



STATISTICS FAMILY

New Delhi, 2022-23

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