

Elements Magazine 2025 7th Edition

SIR PADAMPAT SINGHANIA UNIVERSITY



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s Reflection

Each mind at SPSU possesses a unique and vibrant perspective, and we are thrilled to have converged these diverse viewpoints into a single, graceful vision: “Elements Magazine.” In this 2025 edition, we invite you on an extraordinary journey—one that traverses the creative realms of thought and imagination, all centered around a compelling and thought-provoking theme: **India @ 2030**.

As we stand on the cusp of a transformative decade, the future of India is filled with endless possibilities. The articles in this issue delve into the complex and dynamic facets of India’s trajectory—examining everything from innovation and entrepreneurship to the deeper responsibilities of humanity, sustainability, and the power of youth in shaping a new India. Our contributors, a talented team of budding writers, poets, and artists, have come together with boundless enthusiasm to offer their fresh perspectives on what India could look like in the next decade. Their work reflects the diversity of ideas and the collective ambition to chart a better future for all.

The theme of India @ 2030 is more than just a vision; it’s an invitation to rethink how we engage with the world around us. As India accelerates towards becoming a global powerhouse, it is imperative that we address critical challenges such as climate change, sustainable growth, and social equity. At the same time, we must nurture our creative potential, celebrate our cultural heritage, and foster innovation that can redefine the contours of our future. This magazine is not just a collection of articles, but a canvas where creativity meets purpose, where we imagine and work towards the India we aspire to see.

From meticulously selecting colour palettes to crafting innovative designs, every element of Elements Magazine has been curated with care and attention. The editorial process has been a deeply enriching experience for all of us, challenging us to think critically and creatively, while also reinforcing the values of teamwork, dedication, and perseverance. Through this collaborative effort, we’ve strived to create a publication that not only showcases talent but also inspires readers to embrace their own creativity and contribute meaningfully to the future.

We express our sincere gratitude to our esteemed Vice Chancellor, Prof. (Dr.) Prithvi Yadav, and Vice President & Head of Education, Education Vertical, JK Cement Ltd. Col. (Dr.) Sanjay Sinha, for their invaluable guidance and unwavering support. Their leadership has been instrumental in bringing this vision to life. We also extend our heartfelt thanks to everyone who has contributed their time, energy, and ideas to the making of this magazine.

As we conclude this editorial note, we reflect on the words of Sir Ken Robinson, who once said:

“My contention is that creativity now is as important in education as literacy, and we should treat it with the same status.”

We believe that creativity is not just an aesthetic pursuit—it is the cornerstone of progress and the key to unlocking India’s potential in 2030 and beyond.


We hope that Elements Magazine ignites your imagination and encourages you to embrace the boundless possibilities that lie ahead. Let us all take part in shaping a brighter, more inclusive, and sustainable future for India.

Happy Reading!

From the President's Desk



Dr. Prithvi Yadav
President and Vice Chancellor
Sir Padampat Singhanian University



At Sir Padampat Singhanian University, we take pride in fostering a culture of learning that equips our students with the skills, empathy, and vision to contribute meaningfully to India's progress. Our commitment to experiential learning, critical thinking, and holistic development aligns seamlessly with the ethos of this magazine's theme. **"The Progressive India"** – a theme that resonates deeply with our nation's aspirations, resilience, and relentless pursuit of excellence. It reflects our shared vision for a sustainable and inclusive future. The articles and creations in this magazine highlight how our university fosters an environment of innovation, collaboration, and excellence. They also remind us that each individual's contribution, no matter how small, enriches the larger canvas of university life.

As we set our sights on **India@2030**, it is crucial to recognize the pivotal role of our youth in shaping this vision. The youth of India embody an incredible force of innovation, dynamism, and passion. Their responsibilities extend beyond personal achievements to include **nation-building, fostering unity, and advancing the ideals of sustainability and inclusivity**. Sustainable management and green practices are no longer optional; they are imperatives for a future-ready India. Our students must rise as **green managers**—leaders who prioritize environmental stewardship, social responsibility, and economic growth in harmony with nature.

Motivation and appreciation are catalysts for career development. They inspire us to push boundaries, overcome obstacles, and achieve excellence. As educators, mentors, and leaders, we must create an ecosystem that nurtures these values while embedding the principles of **sustainable development and green management**. This helps every individual realize their potential as conscientious citizens of a world that demands innovative and eco-conscious solutions. Remember, creativity and perseverance are the cornerstones of progress, and every step you take toward sustainability contributes to realizing your dreams and a healthier planet.

I invite every reader to reflect, innovate, and act in ways that contribute to our collective dream of a **progressive and sustainable India**. Together, let us pave the way for a nation that not only thrives but also leads with wisdom, compassion, and determination—setting an example for the world in sustainability, inclusivity, and excellence.

From Head of Education's Desk



Col. (Dr.) Sanjay Sinha
Vice President and Head of Education
Education Vertical, JK Cement

India's higher education landscape is undergoing a period of dynamic transformation, with a growing emphasis on research, interdisciplinary studies, and global competitiveness. **Education is the cornerstone of individual growth and societal progress.** It empowers individuals to reach their full potential and contribute meaningfully to the world around them. At SPSU, we are committed to a holistic and equitable approach to education, seamlessly integrating academic learning with practical skills, real-world applications, and sustainability as a guiding principle. Our mission is to nurture well-rounded individuals who excel in their chosen fields and contribute meaningfully to society.

A positive and inclusive culture is essential for fostering student learning and well-being. It starts with creating an environment where every student feels valued, respected, and supported. We need to provide robust emotional and mental health support systems, celebrate diversity, and offer ample opportunities for every student to succeed.

As we embrace the theme of "Progressive India," sustainability must remain at the forefront of our vision for the future. A sustainable approach to education not only prepares students for global challenges but also instills a sense of responsibility towards the environment and society. Dear students, as you navigate your journey of learning and growth, remember that **resilience, compassion, sustainability, inclusiveness, and a commitment to nation-building** are the foundations of true progress. Challenges will arise, but it is your resilience that will transform them into opportunities. Show compassion, not just to others but also to yourself, for it is through empathy and understanding that we build a more inclusive and harmonious world.

Embrace sustainability in every action, understanding that the choices you make today shape the future of our planet. Be inclusive in thought and deed, celebrating diversity as a strength that enriches our collective journey. Above all, **recognize the power you hold** to contribute to the growth of our nation—not just as professionals in your chosen fields but as compassionate and responsible citizens dedicated to the ideals of progress and equity.

Your dreams, combined with your determination, are the building blocks of a brighter, more sustainable, and inclusive India. Together, let us rise to the occasion and contribute meaningfully to shaping the India of tomorrow—one that leads with wisdom, compassion, and an unwavering commitment to progress.

Embarking on another year of exploration and innovation, let **"Elements"** remind us of the power of collaboration, the strength of sustainable practices, and the boundless potential within our SPSU family. May it inspire each one of us to contribute to the ever-growing legacy of our university while upholding the principles of environmental responsibility and sustainable development.

Wishing you endless discoveries !!!



Sustainability

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India@2030

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Theme:

Progressive India





India has made remarkable strides towards progress and development in recent decades, emerging as a rapidly growing economic powerhouse and a leader in various sectors. Driven by economic reforms, technological advancements, and a burgeoning start-up ecosystem, India has witnessed sustained economic growth, a thriving IT industry, and successful space missions. The country has invested heavily in infrastructure development, including modern highways, airports, and smart cities, while also implementing widespread social welfare initiatives to combat poverty, improve healthcare and education, and empower marginalized communities. India has also made significant progress in promoting renewable energy sources and has set ambitious targets for increasing their share in the overall energy mix. Despite remaining challenges, India's progressive journey reflects its commitment to sustainable development, inclusive growth, and technological innovation, positioning it as an emerging global force.



Sustainability

“The greatest threat to our planet is the belief that someone else will save it.”

-Robert Swan

India is actively pursuing sustainable development to balance economic growth with environmental protection and social equity. Key initiatives include increasing renewable energy sources like solar and wind, implementing afforestation and biodiversity conservation programs, promoting sustainable agriculture practices, and developing smart cities with effective waste management. The government has policies like the National Environment Policy and National Action Plan on Climate Change to drive sustainability efforts. However, challenges such as air pollution, water scarcity, and rapid urbanization remain obstacles. Overcoming these will require collaboration between the government, businesses, and civil society to ensure India's long-term environmental, economic, and social sustainability.



Sustainable India: A Symphony of Collaboration for a Thriving Future

Col. (Dr.) Sanjay Sinha
Vice President and Head of Education
Education Vertical, JK Cement

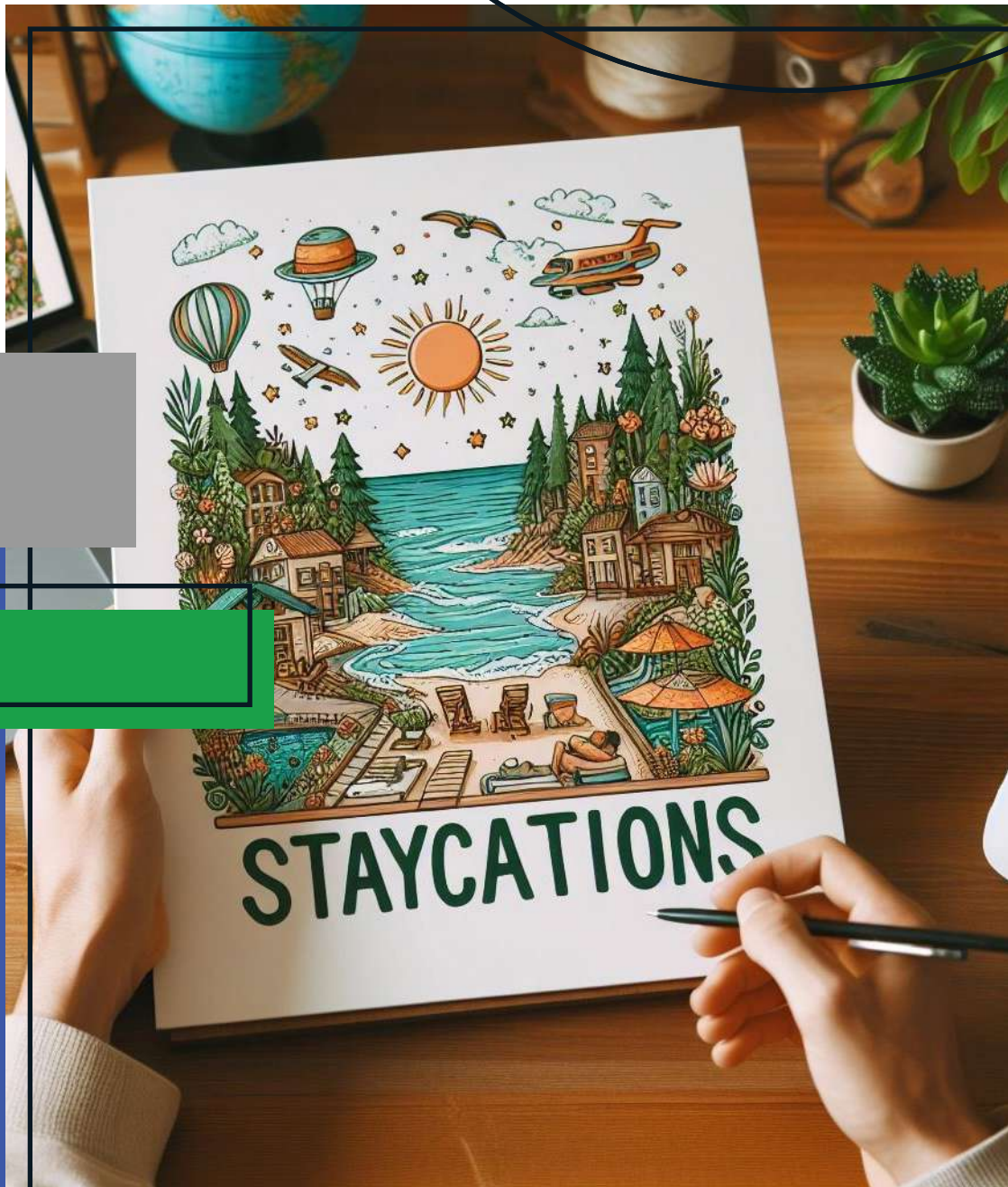




As the winds of change sweep across our nation, carrying the echoes of both challenge and opportunity, we stand at a pivotal moment. The choices we make today will resonate for generations to come, shaping the destiny of India and etching our legacy in the annals of time. This is not a time for reticence, but for cross industry collaboration, innovations which contribute meaningfully, and purposeful leadership. The world grapples with unprecedented hurdles – the spectre of climate change looms large, resource scarcity casts a long shadow, and social inequalities threaten to tear apart the fabric of our communities. Yet, amidst these formidable foes, a beacon of hope flickers brightly. We are witnessing a symphony of innovation, a crescendo of collaboration, and an unwavering collective determination to build a better tomorrow. India, a land steeped in rich heritage, pulsating with the boundless energy of its diverse talent pool, and brimming with the entrepreneurial spirit of its youthful population, is uniquely positioned to lead the charge towards a sustainable future. We have already taken commendable strides in renewable energy, smart cities, and environmental protection, but to truly unlock our full potential, we must accelerate our efforts and embrace a transformative paradigm of development. **Forward Faster 2030** is not merely a plan; it is a clarion call to action, a resounding summons that unites government, businesses, civil society, and individuals in a shared mission. Together, we will orchestrate an enabling environment for sustainable development, where innovation flourishes and capacity building empowers all sectors. The business community, the engine that drives our economy, holds the key to unlocking a sustainable future. By embracing sustainable practices, investing in cutting edge green technologies, and adhering to responsible business conduct, they can be the maestros of this transformative symphony. But the power to drive change lies not just in the hands of institutions, but also in the hearts and minds of individuals. Every conscious choice we make, from using renewable energy to reducing waste, becomes a note in the grand symphony of sustainability. Every action, no matter how small, contributes to a crescendo of positive change, a movement that reverberates throughout our nation. Let us not be daunted by the challenges that lie ahead. Instead, let them fuel our resolve, ignite our creativity, and propel us towards a future where sustainability is woven into the very fabric of our decisions. This is not just about economic progress; it is about ethical advancement, ecological harmony, and equitable prosperity. We, the generation of today, have the privilege and responsibility to be the pioneers of a new era, an era where sustainability and prosperity dance in perfect harmony. Let us build a future where every Indian can thrive in dignity, living in perfect accord with the rhythms of nature. The path to a sustainable India demands innovation as our closest ally. Our industries must transform, our technologies must evolve, and our policies must be guided by the principles of sustainability. We must invest in clean energy sources, embrace circular economy practices, and harness the power of digitalization to create smart and sustainable cities. Our agricultural practices must be revolutionized to ensure food security while safeguarding the health of our planet. Education is the cornerstone of a sustainable future. We must empower our youth with the knowledge and skills they need to navigate a rapidly changing world. Sustainability education must take centre stage, instilling in our future leaders a deep appreciation for the environment and a profound sense of responsibility towards the global community. As we embark on this momentous journey towards a sustainable India, let us draw inspiration from the wisdom of our ancestors and the aspirations of our children. Let us be the architects of a future where prosperity and sustainability intertwine, a future where every generation inherits a thriving India. With unwavering belief, unwavering collaboration, and unwavering passion, we can transform Forward Faster 2030 from a vision into a reality, paving the way for a brighter, greener, and more sustainable India. By working together, we can compose a symphony of sustainability that will resonate for generations to come.

Rediscovering Paradise: The Beauty and Benefits of Staycations

Dr. Shweta Lalwani
Professor and HOD, FM



In the current landscape of travel, the concept of a staycation has emerged as a compelling alternative, offering a unique blend of relaxation, exploration, and sustainability. A staycation, as its name suggests, allows individuals to experience a vacation-like getaway without the need to travel far from home. Particularly relevant in today's context, where global uncertainties and travel restrictions are prevalent, staycations offer a safe and convenient option for those seeking a change of scenery and a break from the monotony of daily life. Consider, for example, a family living in a bustling city who decides to embark on a staycation. Instead of enduring long hours of travel, they opt to explore local parks, museums, and attractions. They discover hidden gems in their own city, such as a charming neighborhood café or a scenic walking trail, that they had previously overlooked. Through this experience, they not only create lasting memories but also support local businesses and contribute to the economic vitality of their community. At the heart of the staycation experience is the opportunity for individuals to unwind and rejuvenate, all within the comfort and familiarity of their local surroundings. Amidst the challenges posed by the COVID-19 pandemic, staycations have gained popularity as a way for people to escape the stresses of everyday life without venturing too far from home. This has been especially beneficial for those who may be hesitant to travel long distances or are simply looking for a more affordable and accessible vacation option. One of the key advantages of a staycation is its ability to promote sustainable tourism practices. By staying local, individuals can significantly reduce their carbon footprint, as they are not required to take long flights or drive extended distances. This aligns with the growing trend towards eco-conscious travel, as more people seek ways to minimize their impact on the environment while still enjoying meaningful travel experiences. In today's context, where environmental conservation is a pressing issue, staycations offer a responsible and sustainable way to travel, supporting local businesses and communities in the process. Furthermore, staycations can have a positive impact on the local economy by boosting spending in the area. Consider a couple who decides to book a weekend staycation at a local

bed and breakfast. By choosing to stay locally, they not only enjoy a relaxing getaway but also support the small business owners who run the establishment. This, in turn, helps to stimulate economic growth and create jobs within their community. In addition to its economic and environmental benefits, a staycation offers a range of other advantages, including flexibility and affordability. Unlike traditional vacations that require extensive planning and financial investment, staycations can be planned on short notice and tailored to suit individual preferences and budgets. This flexibility allows for a more personalized and enjoyable vacation experience, catering to the specific needs and interests of each traveler. In today's fast-paced world, where time and money are often limited, staycations offer a convenient and cost effective way to relax and unwind without the need for extensive planning or financial strain. Moreover, staycations can also provide a valuable opportunity for individuals to explore and appreciate the beauty of their own surroundings. Oftentimes, people overlook the attractions and landmarks that are right in their own backyard, opting instead to travel to far-off destinations in search of adventure. However, a staycation can offer a fresh perspective, allowing individuals to discover hidden gems and local treasures that they may have never noticed before. This aspect of staycations is particularly relevant in today's context, where travel restrictions and safety concerns may limit the ability to explore new destinations. By embracing a staycation mindset, individuals can cultivate a sense of curiosity and appreciation for their local environment, enriching their travel experiences and creating lasting memories in the process. In conclusion, staycations offer a compelling alternative to traditional travel, providing a range of benefits for both individuals and local communities. In today's context, where global uncertainties and travel restrictions are prevalent, staycations offer a safe, sustainable, and affordable way to travel, allowing individuals to unwind and explore while supporting their local economy. Whether seeking relaxation, exploration, or simply a change of scenery, a staycation can offer a memorable and fulfilling vacation experience, all within reach of home.

Safer and Greener Chemistry Labs

*Dr. Tulika Chakrabarti,
Associate Professor, FAS*

The phrase “Safer and Greener Chemistry Labs” describes the application of procedures, tools, and guidelines designed to reduce hazards to the environment and public health that are connected to chemistry laboratory activity. This method includes a number of techniques to cut back on energy use, lessen the use of dangerous chemicals, and lessen the production of waste all the while preserving the accuracy and efficacy of scientific investigation and testing.

Key principles of safer and greener chemistry labs include:

- **Substitution of Hazardous Chemicals:** Identifying and using less toxic or non-toxic alternatives to hazardous chemicals whenever possible. This reduces potential risks to laboratory personnel and the environment.
- **Green Solvents and Reagents:** Choosing solvents and reagents that are less harmful to human health and the environment, such as water-based or bio-based alternatives, and minimizing the use of volatile organic compounds (VOCs).
- **Energy Efficiency:** Implementing energy-efficient practices and equipment, such as optimizing heating and cooling systems, using energysaving devices, and employing renewable energy sources where feasible.
- **Waste Reduction and Management:** Adopting strategies to minimize waste generation, including recycling, reusing, and safely disposing of chemical by-products and laboratory waste according to regulatory standards.
- **Green Analytical Techniques:** Utilizing analytical methods that require smaller sample sizes, consume less energy, and generate less waste, such as spectroscopic techniques or microscale experiments.
- **Lab Design and Engineering Controls:** Designing laboratory facilities with safety and environmental considerations in mind, incorporating features such as ventilation systems, containment measures, and spill containment systems.
- **Training and Education:** Providing comprehensive training to laboratory personnel on safe handling practices, waste management procedures, and the principles of green chemistry to promote awareness and adherence to sustainable practices.
- **Collaboration and Knowledge Sharing:** Encouraging collaboration among researchers, industry partners, and regulatory agencies to exchange best practices, share resources, and advance the development and adoption of safer and greener chemistry initiatives.

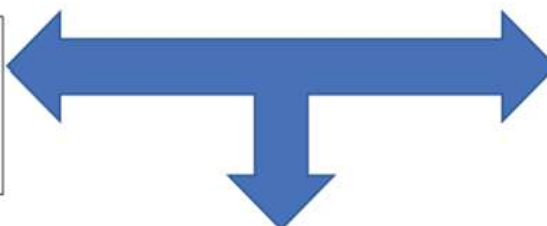
By integrating these principles into laboratory operations, institutions can significantly reduce their environmental footprint, enhance workplace safety, and contribute to the advancement of sustainable chemistry practices. Adopting safer and greener chemistry labs also supports larger societal objectives of encouraging environmental stewardship and creativity for a more sustainable future.



Estimation of chloride ions in water sample by Mohr's Method:

1. This method is an **Argentometric titration**
2. **Here, silver nitrate is taken in burette-** Silver nitrate is **quite expensive reagent**, large amount of silver nitrate solution (around 55ml) required for getting concordant reading by each student .
3. **10 ml of water sample contains chloride ions should be taken through pipette in a conical flask-** sucking of solution from pipette causes problems to the students ,at least 50 ml (at least five trials) of water sample required for getting one concordant reading by each student .Hence water sample required more.
4. **Potassium chromate is taken as indicator in this case , for getting concordant reading , pinch of K_2CrO_4 indicator added at least five times (for five trials) per student.** Hence large amount of potassium chromate indicator required for performing this practical by whole class of fifty students.
5. For performing five trials for each titration per student **at least five washings of the glass apparatuses by distilled water required.** This method is **quite time consuming** ($5 \times 10 \text{ min} = 50 \text{ mins}$ (each trial 10 mins)).

While pouring the water sample from pipette some students stop after the solution stops coming from pipette itself



While pouring the water sample from pipette some students may simply touch the tip of the pipette to the base of the conical flask

While pouring the water sample from pipette some students blow to empty the pipette

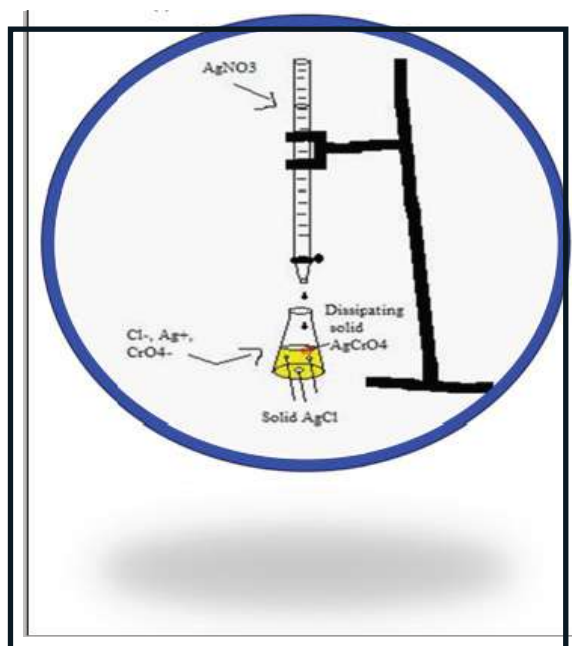


Fig1: Conventional Chloride ion estimation titration setup

Double burette method for determination of chloride ion in water sample: an economic and greener approach

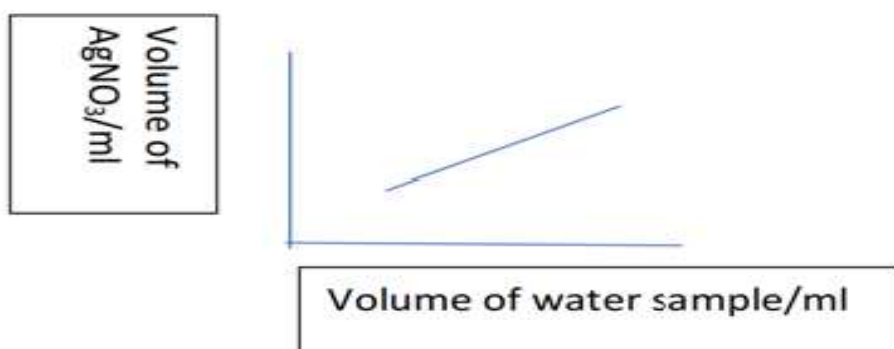
- **Infrastructure at your institution/department level:** In this method of analysis no significant modification in institution/departmental level recommended, only two burettes required for each student hence large amount of burette should be purchased through annual departmental budget (Glass ware, Consumable).
- **3Rs:** In this method amount of silver nitrate and water sample required less. Hence chemicals used for double burette method for determination of chloride ion in water sample is quite economical. After end point, solution (Reaction mixture) is not thrown in the sink, in fact further experimentation is continued in the same flask. It is the best example of reuse of the chemicals. It is an environment friendly method.
- **Safety:** In double burette method for determination of chloride ion in water sample, no sucking of solution using pipette required, hence it is a safe method according to health perspective.

Double burette method for determination of chloride ion in water sample, is quite good according to teaching point of view

1. For each trial, final strength of Chloride ion should be calculated separately by the equation ($N_1XV_1 = N_2XV_2$) and overall strength should be calculated by taking average of the five values. Hence minimization of the error occurs.
2. In this case Overall strength of Chloride ion should be calculated by plotting graphs vol of AgNO_3 vs vol of Water sample taken.



Fig 2: Colour change at the end point from white precipitate at the beginning of the titration to reddish brown precipitate formation.



By calculating slope of the graph (y/x), we can calculate the strength of Chloride ion in water sample more accurately than conventional burette- pipette titration method.

Alternate method:

Determination of chloride ion in water sample can be done by **gravimetric analysis**, a precipitate of silver chloride is formed by adding a solution of silver nitrate to the aqueous solution of chloride ions. The precipitate is collected by careful filtration and weighed.

Conclusion:

Chemists must consider the environmental impact of chemical products and their manufacturing processes. In an ideal world, chemical compounds could be created through a single, efficient, safe, and environmentally friendly reaction using renewable resources. However, most chemical processes are not entirely efficient and produce toxic byproducts. The Green Chemistry initiative aims to develop more eco-friendly chemical processes that reduce or eliminate the production of dangerous compounds. Success in this endeavor requires strong leadership, coordinated efforts across all scientific fields, respect for fundamental research, and strategic investments in human capital. Green chemistry is the unique contribution of chemistry to environmental sustainability.



Impact of Motivation and Appreciation in Career Development

Motivation is a force or energy within a person that influences effort, directs behaviors, and ultimately affects performance and individual outcomes. It's believed that personal motivation has grown in importance in recent years due to changes in work roles, which have become more flexible, less well-defined, and subject to increasing change. This has led to more frequent career transitions and the need for individuals to self-manage their career development.

Appreciation, on the other hand, is about acknowledging a person's inherent value. It's been found that employees who are recognized tend to have higher self-esteem, more confidence, more willingness to take on new challenges, and more eagerness to be innovative. Recognition affects employee motivation by letting them know they are valued and that their work has an impact. It builds trust, boosts team morale, increases employee retention and loyalty, and improves performance. In the context of Progressive India, the impact of motivation and appreciation in career development can be seen as a crucial factor. By motivating and appreciating individuals, especially those in rural areas, we can empower them to take control of their career development. This can lead to the creation of a more skilled workforce, which in turn can contribute to the overall progress and development of the country.

Fostering a Progressive and Sustainable India: The Transformative Role of Men and Women in Achieving Gender Equality and Empowerment

Dr. Shibani Banerjee, Professor, FLDS



Men and Women are two sides of the same coin. The contribution of either in the development of society and harnessing it cannot be undermined. Swami Vivekananda's golden words 'Arise, Awake and stop not, till the goal is reached' befitting in all situations can also be witnessed in the exceptional contribution of women as entrepreneurs, educationists, managers lawyers, media professionals, doctors and their involvement in the field of Army, Navy and Air Force etc. Equality between women and men (gender equality) refers to the equal rights, responsibilities and opportunities of women and men and girls and boys. Gender equality is not a women's issue but should concern and fully engage men as well as women. (United Nations Entity for Gender Equality and the Empowerment of Women). The global perspective no longer focuses on just gender equality but also on the transformation that has come in the mindset of people and thus coins it as transformative gender equality. For a Nation to evolve, progress and achieve milestones empowerment of women plays a vital role. Gendered power structures and social norms lock both women and men in positions that limit their productivity and ability to make choices to improve their situation. The world today is witnessing a phenomenal progression in innovation and entrepreneurship and men and women are seen as equal contributors in shaping the economy. The coming together of new minds, varied cultures, sharing of knowledge has opened new avenues leading to employment opportunities, empowerment of women, diverse leadership roles and a paradigm shift in the sustainable goals. The recognized paucity of women in formal leadership positions and the benefits of a genderbalanced leadership is a serious concern these days. Recognizing the benefits that stem from diversity at the helm of organizations and institutions serves as a positive impetus for reshaping leadership dynamics. awareness prompts a collective effort to create opportunities that empower women, ensuring their equitable representation in leadership roles. By embracing gender balance, societies and organizations stand to gain from a wealth of diverse perspectives, innovative approaches, and enhanced decision-making, ultimately contributing to a more vibrant and successful future. In the contemporary landscape, convergence of diverse perspectives propelled innovation and entrepreneurship to unprecedented heights. Men and women alike are acknowledged as pivotal contributors in shaping the global economy. This collaborative environment, fostered by the amalgamation of new ideas and varied cultures, has not only opened new avenues for economic growth but has also played a significant role in providing increased employment opportunities. A notable outcome of this inclusive approach is the empowerment of women, who are now more actively participating in various sectors of the economy. The breaking down of traditional barriers has led to a more equitable distribution of leadership roles, fostering diverse and inclusive workplaces. As a result, there has been a paradigm shift towards achieving sustainable goals, with an emphasis on social responsibility and environmental consciousness. The evolving mindset among men towards inclusion is particularly crucial in the context of incorporating women into the workforce. As men increasingly recognize the benefits of diversity, they become key advocates for breaking down traditional barriers and ensuring equal opportunities for women in

TRANSFORMATIVE GENDER EQUALITY IN A SUSTAINABLE INDIA



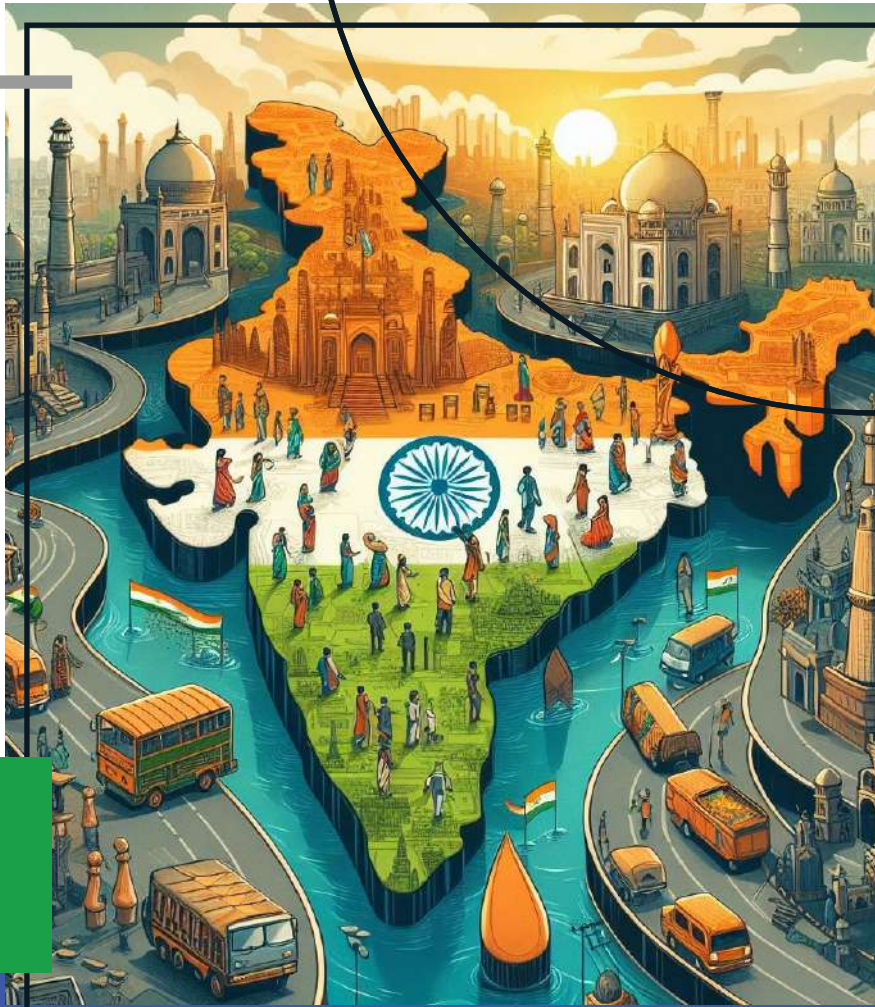
“A political struggle that does not have women at the heart of it, above it, below it, and within it is no struggle at all.”

-Arundhati Roy



various professional spheres. The paradigm shift towards inclusivity accentuates that gender diversity is not merely a social obligation but a strategic advantage. In workplaces where men actively champion the inclusion of women, there is a tangible impact on fostering a more innovative and dynamic environment. Women bring unique perspectives and problem-solving approaches that, when integrated with those of their male counterparts, lead to more robust decision-making and creative solutions. Moreover, the active participation of women in the workforce is not just a matter of gender equality; it's an economic imperative. Studies consistently demonstrate that organizations with diverse leadership teams, including a significant representation of women, tend to outperform their counterparts in various aspects such as financial performance and innovation. Embracing the inclusion of women is not only a step towards fairness but also a strategic move that enhances organizational resilience and adaptability in a rapidly changing world. In essence, the changing mindset of men towards inclusion paves the way for dismantling gender-related barriers, ensuring that women can contribute their skills and talents fully in the workforce. By recognizing and valuing the importance of gender diversity, men play a pivotal role in reshaping workplace cultures, fostering equality, and ultimately driving societal progress. Despite these positive strides, a critical issue persists—the underrepresentation of women in formal leadership positions. This gender gap poses a serious concern as it hinders the full realization of the potential benefits associated with gender-balanced leadership. The recognition of this paucity serves as a call to action, prompting organizations and societies to address and rectify the existing disparities in leadership roles. Exploring the underlying tensions and aspirations of women managers reveals the complex interpersonal dynamics they often navigate in their professional journeys. The challenges they face in terms of biases, stereotypes, and unequal opportunities significantly impact their career advancement. It is imperative to delve into these aspects to understand and dismantle the barriers that hinder the progression of women in leadership roles. Simultaneously, the broader conversation around sustainable development in all spheres of life demands our attention and rigorous discussion. The challenges and opportunities in achieving sustainability goals are multifaceted, encompassing environmental conservation, social equity, and economic stability. A holistic approach is essential to address these issues, involving collaboration between governments, businesses, and individuals to create a more sustainable and equitable future. In conclusion, the current era witnesses a dynamic interplay of innovation, entrepreneurship, and gender dynamics. While strides have been made towards gender equality and sustainable development, there remains work to be done in dismantling barriers to women's leadership and addressing the multifaceted challenges of sustainability. A concerted effort is required from all stakeholders to create an inclusive and sustainable world that benefits everyone.





India, with its vibrant mix of cultures, landscapes, and traditions, is on a fascinating path towards progress. From the bustling cities to the tranquil villages, the story of India's development is a tapestry woven with threads of growth, change, and resilience. Let's dive into the different facets that make up this journey:

Growing Economy, Growing Opportunities: India's economy has been booming, especially with the rise of technology and startups. You can see it in the bustling cities where new companies are popping up, creating jobs and driving innovation. Government initiatives like **Make in India** and **Startup India** are giving wings to entrepreneurship, making sure everyone gets a shot at success. India's current GDP (as of December 2023) is \$3.73 trillion, making it the fifth-largest economy in the world. The GDP

growth rate in Q2 of FY24 is 7.6 percent, higher than the major economies such as Russia, the USA, China, and the UK³. The GDP per capita is \$2601 as of December 2023, higher than the previous year.

Bringing Everyone Along:

One thing that stands out about India's progress is its commitment to inclusivity. The share of private consumption in GDP amounted to 61 percent in Q2 of FY24, compared to 59.7 percent in the previous quarter. Government initiatives like MANREGA and PMJDY have helped in providing income support and financial inclusion to the poor and rural households. Beti Bachao, Beti Padhao has improved the sex ratio at birth from 918 in 2014-15 to 934 in 2019-2020 and increased the gross enrolment ratio of girls in secondary education from 77.45 percent in 2014-15 to 81.32 percent in 2018-19.

India's Journey to Progress: A Story of Diversity and Determination

Rishabh Pokharna, MBA

Greening the Future:

India is also taking big steps to protect the environment. With programs like Swachh Bharat Abhiyan and a push for renewable energy, India is making strides in the field of renewable energy. The country has installed 100 GW of renewable energy capacity as of November 2023, which is 28.8 percent of the total installed capacity. India has also committed to achieve 450 GW of renewable energy capacity by 2030, which would make it one of the largest green energy producers in the world.

Celebrating Heritage, Embracing Change:

India's cultural scene is as vibrant as ever, blending tradition with modernity in a beautiful way. Whether it's the timeless stories of Indian literature or the colourful festivals that light up the streets, there's something magical about how India holds onto its roots while embracing the future.

Playing a Global Role:

India's cultural diversity and heritage are also reflected in its global recognition and influence. India has 38 UNESCO World Heritage Sites, the sixth-highest in the world. India is also a member of various international organizations and forums, such as the UN, G20, BRICS, SAARC, ASEAN, etc. India has also contributed to global peace and security by participating in 54 UN peacekeeping missions and providing humanitarian assistance and disaster relief to various countries.

In Conclusion:

India's journey towards progress is a testament to its spirit of resilience and determination. As the country continues to grow and evolve, it's clear that its diversity and rich heritage are its greatest strengths. With each step forward, India is not just building a brighter future for itself but also inspiring the world with its incredible story of progress.

Human Hustle and his Dreams

Vardhan, B.Tech





A metropolis, A map of desires
The towers, bulidings and apartments
reaching the sky
Teach you to aim, dream and aspire high
The long, structured and elaborated roads
Tells you to leave footprints to earn crores
The constellation of fluorescent lights and
motor queue
Will keep you awake and ask you to push
through

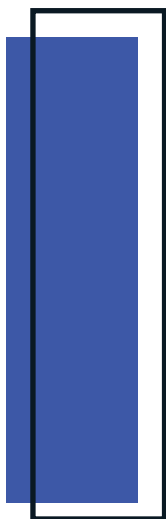
But,
How do you make it past this race?
When everyone's running at same pace!

You question your existence
Inside the walls of persistence
Traffic lights guiding your being
Red says, "stop breathing"
Orange states, "plan your living"
Green signals, "execute your working"

Now,
You believe you are the one
The one light ray in a billion
Shining through
Reflections of water in the stock-still lake
Covered through
Pillars of inspiration on the tales- filled land

Then,
You leave a legacy behind
A legacy which shines
Through the city lights
Imprinting the story on future historical walls
A story called
Human hustle and his city dreams

DON'T GIVE UP



In the shadows where doubt may creep,
And the path ahead seems steep, A whisper
echoes through the night, "Don't give up,
embrace the fight."

When storms of life obscure the way, And
dreams seem distant, shades of gray,
Hold on tight to hope's soft glow, For in
persistence, strength will grow.

Through trials that test the heart, Where
despair threatens to impart, Remember,
in each setback lies, The seeds of strength
that make us rise.

In the tapestry of time, woven bold, Stories
of resilience are told, For every journey has
its turn, From the embers, new fires burn.

When darkness claims the sky above, And
the journey feels devoid of love, Look within,
find the flame, Don't give up, you're not the
same.

For even when the road is tough, And the
going feels rough, In the depths of despair,
push through, Emerging stronger, steadfast,
true.

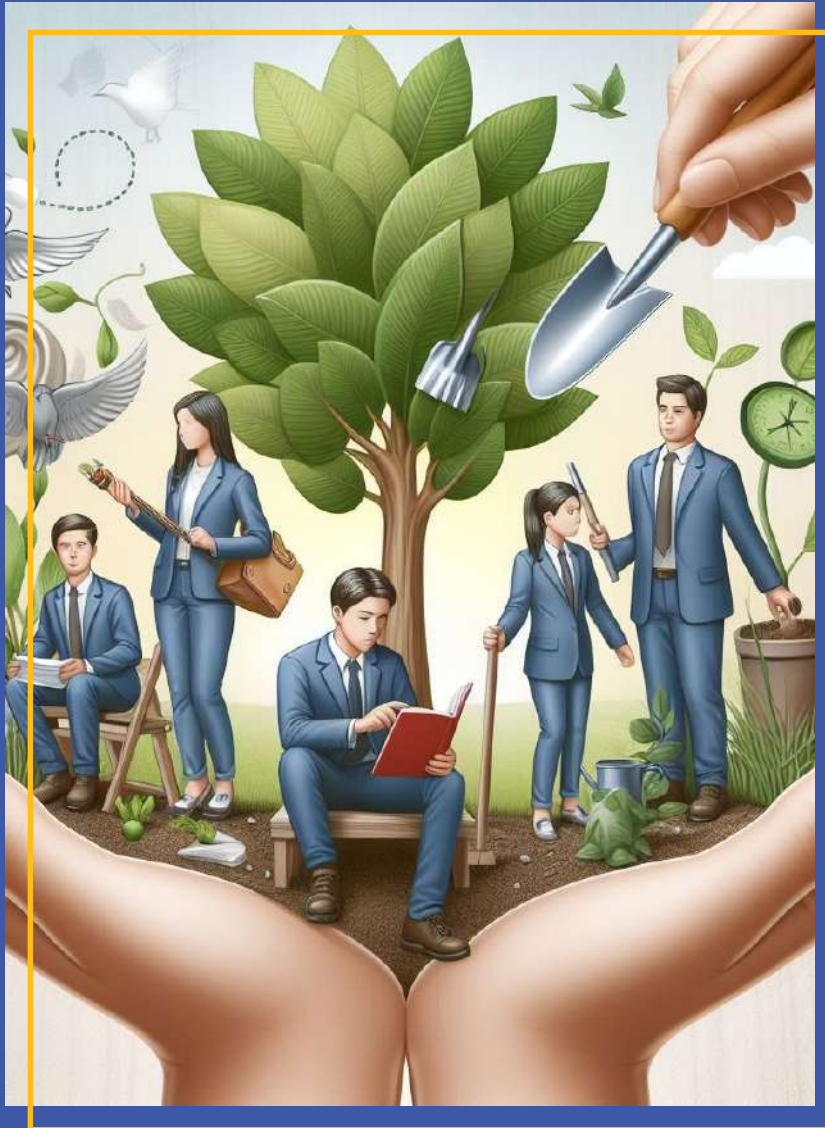
In the symphony of life, your part, Plays
with courage, a work of art, The melody of
persistence, sweet, Don't give up, victory's
heartbeat.

So, when the weight becomes too much, And
hope feels like a distant touch, Remember,
in surrender, lies defeat, Don't give up, your
triumph's heartbeat.

Don't Give Up

Suhani Bafna, B.Tech





Roles and Responsibilities of Youth

“Sometimes our power resides not in what we do, but in what we don’t do.”

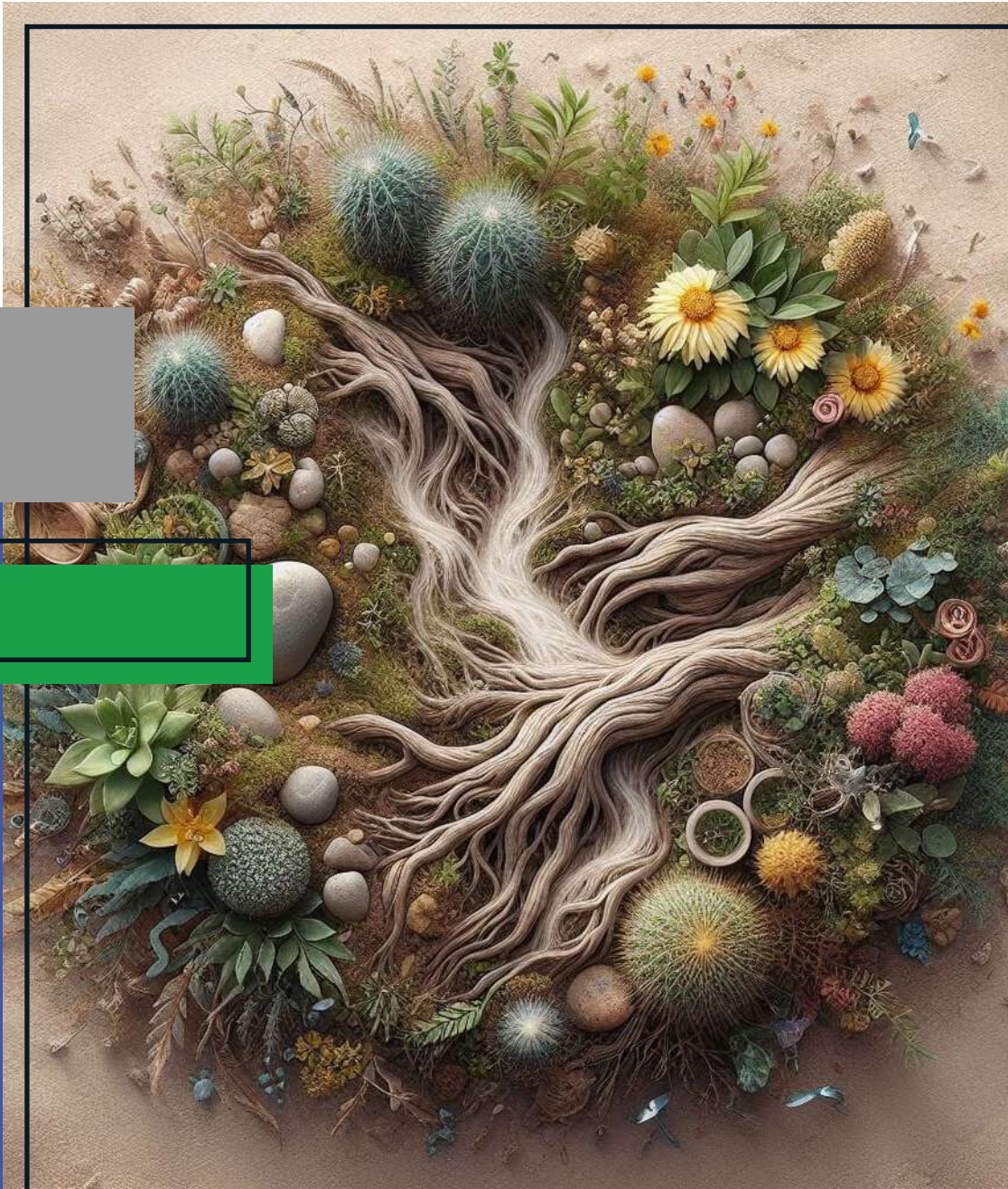
– Paulo Coelho

The youth, the future of the nation and the people who have the power and the destiny to change the nation have certain responsibilities towards the country too. The youth is often considered as the most powerful part of the population and that is probably the most correct way to describe the youth. Today’s youth will soon take over the country and change it for the better and the nation will see a revolution. The Che Guevara’s of tomorrow are in the making and underestimating the youth of today is the biggest mistake that one can make. The responsibilities of the youth that we talk about are not only towards themselves or their families but also towards the nation. The nation has been anticipating the arrival of a generation which will change the way things are understood and done in the country, for the better of course. The youth of today, with its fresh ideas and opinions will soon bring about a change that will change the way the world looks at India. The country, believe it or not, is in dire need of a revolution and the only hope we have is the youth. With their vision and farsightedness, the youth can bring to the plate not only changes, but freshness which the country could use to give itself an image makeover. India is a young country and it needs to start acting like one, we have a long way to go and we need to start working towards it.



Restraining Ourselves

Mitali Thapa, B.Tech.



India is the cradle of the human race, the birthplace of human speech, the mother of history, the grandmother of legend, and the great-grandmother of tradition. In the context of its history and cultural heritage, it is a highly developed one in advanced decay. It is not just a mere piece of land. It is something more, a metaphor, a poetry something tangible. Swami Vivekanand said once, “India has been the land of philosophers and the home of spiritualism for ages. It has given birth to various religions that teach the world the lesson of peace, harmony, and love.” The young people in our nation are the living embodiment of tomorrow’s potential. In India, the percentage of people under 25 is over 50% and the percentage under 35 is over 65%. To harness this immense potential, it is imperative to channel the energy of the youth towards constructive avenues. In the era of digital innovation, the young generation has unparalleled access to technological advancements. With the power of social media, they can amplify their voices, raise awareness about pressing issues, and mobilize communities toward a shared vision. The possibilities to make change and get effective results are endless only if somehow, everyone could “unite”. The transition from youth to adulthood can be a complex phenomenon. In this process, they have to deal with a range of issues involving expectations and pressure to do well, maintaining social relationships with friends and peers, and the need to be recognized by family and friends for what they are and believe in. The majority of Indian youngsters are “restraining” themselves from realizing their full potential because they are afraid of failing, afraid of being left out, and afraid to attempt. Together, they have the unmatched ability to build a nation that is both socially and technologically advanced. But are young people aware of this? Does the youth of India realize that, rather than being driven by social pressure to become future leaders and innovators, they have a patriotic duty to educate the world about India, the country of colors, and how its population defines its potential rather than just making it the most populous nation in the world? “What we lack is perhaps courage, what we lack is perhaps driving force, which takes one anywhere. We have, I think, developed an inferiority complex,” the former president said, stressing “what is needed in India today is the destruction of that defeatist spirit. History is a potent reminder of the agency and influence of youth in the national building furnace. Regardless of their socioeconomic status, young people’s resilience and unflinching will in the face of hardship were demonstrated by the Indian independence struggle. We all have echoes of the foolish and wise beliefs that have been instilled in us, and these ideas constantly bounce off of one another and against us. We’re all capable of acting foolishly; the question is, are we ready to keep doing so? It’s crucial to identify them for what they are and drive the foolish ones into the abyss of insignificance where they belong. The traditional concept of success, which is mostly based on academic achievement, has made it so that students are forced to pursue high test scores no matter what. The variety in abilities and potential among students is not taken into account by this onedimensional perspective. Redefining success with an emphasis on the growth of abilities, morality, and emotional intelligence is an urgent need for change. Exam grades should not be the only factor considered when assigning grades to pupils; assessments should also take into account a more thorough analysis of their overall development. The supreme value of the youth period is incalculable and indescribable. Youth life is the most precious life. Youth is the best time. How you utilize this period will decide the nature of the coming years that lie ahead of you. The supreme value of the youth period is incalculable and indescribable. Youth life is the most precious life. Youth is the best time. How you utilize this period will decide the nature of the coming years that lie ahead of you. Your country requires heroes; be heroes; your duty is to go on working, and then everything will follow of itself.

Conserving India's Rich Legacy: An Entire Tapestry of Ageless Treasures

Chinthakuntla Uday Charan, B.Tech

India is a country rich in culture and history with a millennium-old tradition that is unmatched. India's history is a tapestry woven with strands of tradition, spirituality, art, architecture, and a variety of customs, spanning from the prehistoric Indus Valley civilizations to the Mughal opulence and beyond. This article examines India's rich cultural heritage and the continuous efforts to honor and preserve it.

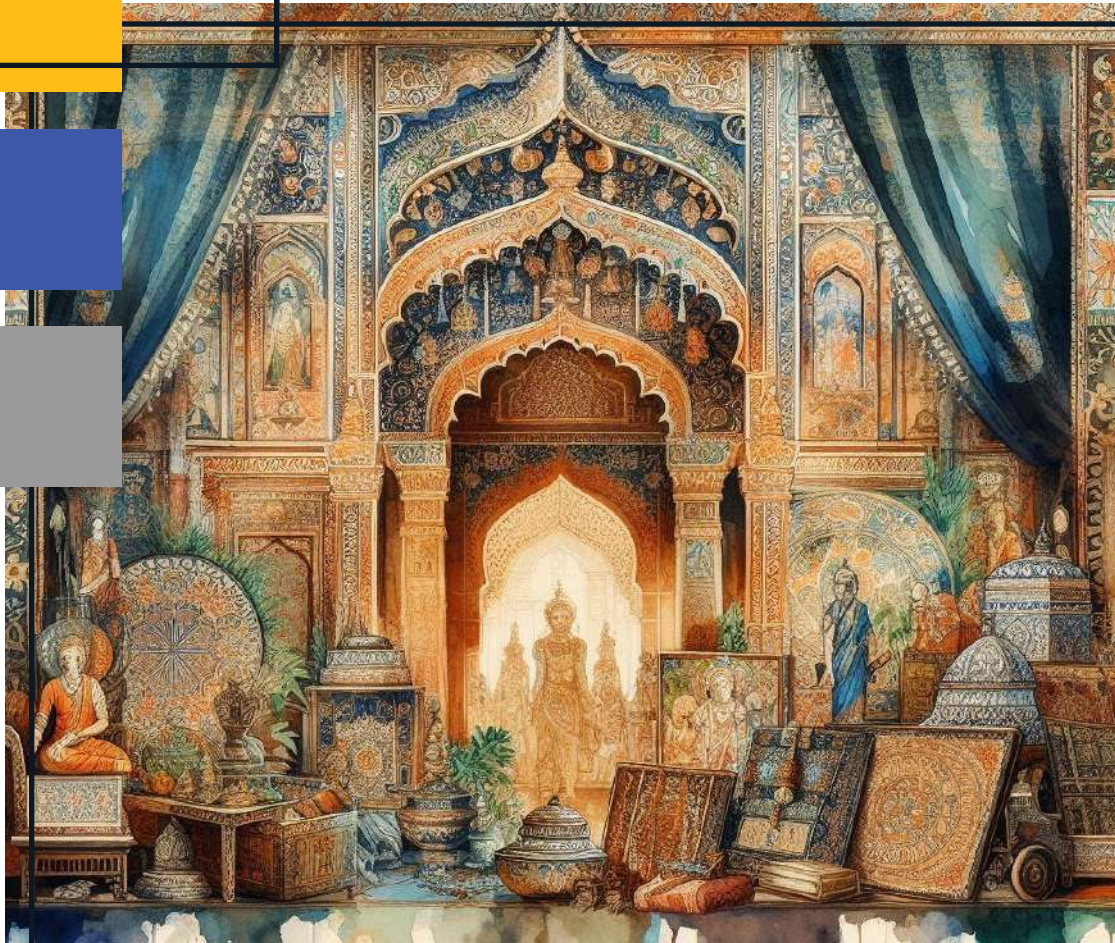
Historical Importance: The Indus Valley Civilization, which flourished between 3300 and 1300 BCE, is one of the oldest civilizations in the world and is the source of India's legacy. The sophisticated urban design and craftsmanship of these ancient societies are demonstrated by the archaeological remains of MohenjoDaro and Harappa. Empires rose and fell in later eras, each leaving a lasting impression on the fabric of culture.

The Architecture of the Mughals:

Magnificent architectural marvels are commonly associated with the Mughal era (1526–1857). The Taj Mahal, a UNESCO World Heritage Site, is a timeless representation of love and exquisite architecture. Other treasures that demonstrate the Mughal mastery of design and aesthetics include the Red Fort in Delhi and the elaborate carvings of Fatehpur Sikri.

Philosophical and Spiritual Heritage:

India's ancient books, such as the Vedas, Upanishads, and epics like the Mahabharata and Ramayana, reflect the country's spiritual and philosophical past. The nation's spiritual fabric has been influenced by the teachings of saints and philosophers like Adi Shankaracharya and Ramanuja, who encouraged a wide variety of practices and beliefs.



Diversity of Cultures: The diversity of Indian culture is one of its most distinctive features. Every region has unique customs, celebrations, and artistic expressions. Global audiences are enthralled with the classical dance styles of Bharatanatyam, Kathak, Odissi, and others, as well as the classical music traditions of Hindustani and Carnatic. Everyday life is braided with elaborate jewelry, pottery, and handloom textiles that are examples of traditional crafts.

Preserving Measures:

A number of governmental and non-governmental organizations have launched programs to protect historical places, manuscripts, and traditional art forms because they understand how important it is to preserve this rich legacy. Keepers of priceless relics, museums such as the Indian Museum in Kolkata and the National Museum in Delhi offer insights into the rich history of India.

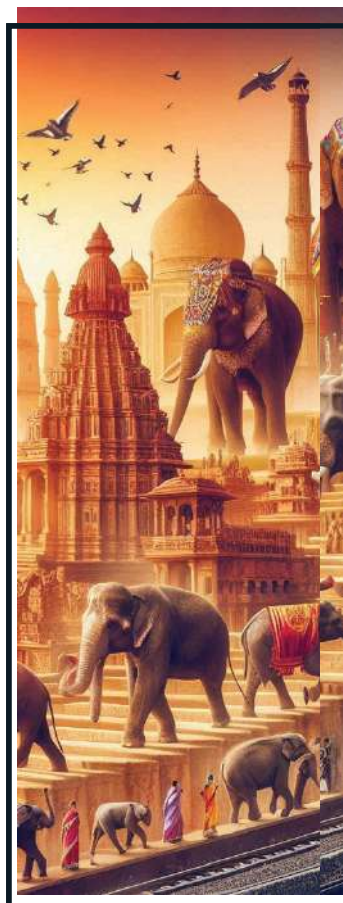
Obstacles notwithstanding these initiatives, issues like pollution, urbanization, and encroachment pose a threat to the preservation of India's cultural legacy. Maintaining the architectural marvels and cultural riches that define the country for future generations to admire requires striking a balance between development and conservation. India's centuries-old legacy is a veritable gold mine of creativity, wisdom, and spirituality. In addition to being our duty, preserving and honouring this legacy offers us a chance to reflect on our heritage and recognize the diversity of our cultural identity. It is our responsibility as custodians of this legacy to make sure that these ageless gems continue for many more generations, providing inspiration and a sense of pride for the varied and dynamic nation that is India.

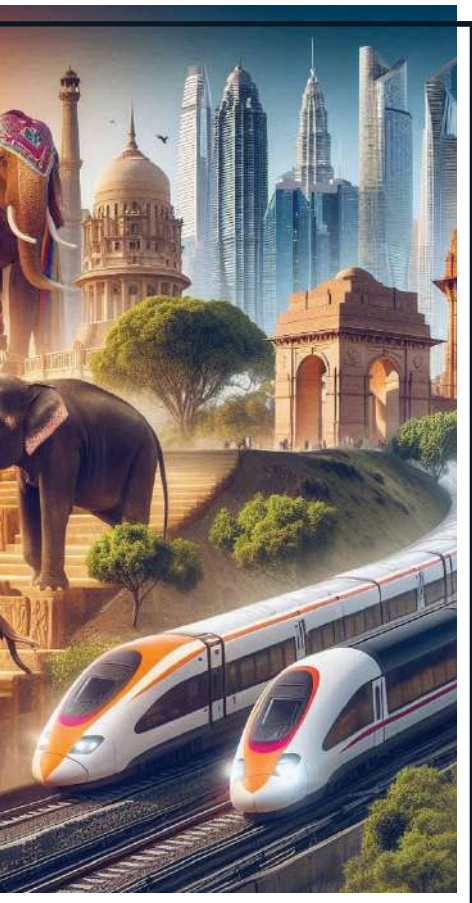
Navigating Towards a Progressive India: The Role of Youth in 2030 and Beyond

Manan Jain, MBA

In the quest for progress and prosperity, India stands at a crucial juncture where the energy and aspirations of its youth will play a pivotal role in shaping its trajectory. As we look ahead to 2030 and beyond, harnessing the potential of this demographic dividend becomes imperative for steering the nation towards a brighter future. The youth of today are not just the leaders of tomorrow; they are the architects of change in the present moment. India's youth bulge presents both a challenge and an opportunity. With approximately 356 million individuals aged between 10 and 24, according to the United Nations Population Fund, India boasts of one of the largest youth populations in the world. This demographic dividend can be harnessed to propel economic growth, drive innovation, and foster social transformation. However, realizing this potential requires a concerted effort to address the multifaceted needs of the youth and empower them to become active participants in the nation-building process.

Education stands as the cornerstone of empowering the youth. Beyond traditional academic learning, there is a pressing need to equip young people with 21st-century skills such as critical thinking, problem-solving, digital literacy, and entrepreneurship. Quality education not only enhances employability but also nurtures creativity and innovation, essential for driving economic growth in a rapidly evolving global landscape. Moreover, ensuring equitable access to education is paramount. Despite significant progress in recent years, disparities persist, particularly in rural and marginalized communities. Bridging this gap requires targeted interventions aimed at improving infrastructure, enhancing teacher training, and promoting inclusive policies that prioritize education for all, irrespective of socio-economic background or geographic location. Empowering youth also entails providing them with avenues for meaningful participation





in decision-making processes. From local governance to national policymaking, involving young people in shaping their future fosters a sense of ownership and accountability. Initiatives such as youth councils, participatory budgeting, and youth-led advocacy campaigns serve as catalysts for driving social change and fostering a culture of democratic engagement. Furthermore, nurturing an entrepreneurial ecosystem is crucial for unleashing the innovative potential of India's youth. Entrepreneurship not only creates job opportunities but also drives technological innovation, fosters competitiveness, and catalyses economic development. Government support through policies that facilitate access to finance, streamline regulatory procedures, and promote industry-academia collaboration can spur entrepreneurial activity and unleash a wave of innovation across sectors. However, realizing the full potential of India's youth requires addressing systemic challenges that hinder their progress. Gender inequality, socio-economic disparities, inadequate infrastructure, and unemployment remain formidable barriers that need to be overcome. Creating an enabling environment that ensures equal opportunities for all, irrespective of gender, caste, religion, or economic status, is essential for harnessing the collective potential of India's diverse youth population. Moreover, investing in healthcare, mental well-being, and social safety nets is crucial for nurturing a healthy and resilient youth population. Access to affordable healthcare services, mental health support, and social protection mechanisms not only enhances individual well-being but also contributes to overall societal development. In conclusion, the youth of India hold the key to unlocking the nation's potential and steering it towards a progressive future. By investing in their education, empowering them to participate in decision-making processes, fostering entrepreneurship, and addressing systemic challenges, India can harness the demographic dividend and emerge as a global powerhouse in the 21st century. As we navigate towards 2030 and beyond, let us recognize the transformative power of youth and work collectively to create a more inclusive, prosperous, and sustainable India for generations to come.

Embracing the Future: Youth's Role in Crafting a Progressive India

Vinita Choudhary, MBA



Introduction

In the canvas of a Progressive India, the youth emerges as the vibrant brushstrokes, painting a picture of innovation, inclusivity, and sustainable growth. As we envision India@2030, it is essential to delve into the various facets that shape our journey towards progress. From shouldering responsibilities to fostering entrepreneurship, from championing sustainability to navigating the landscape of Industry 5.0, the youth stand at the forefront of change, poised to carve a path towards a brighter tomorrow.

India 2030

As we peer into the future, India 2030 beckons with promise and potential. The youth hold the reins of this transformative journey, steering the nation towards a landscape characterized by technological prowess, economic prosperity, and social harmony. To realize this vision, it is imperative for the youth to actively engage in shaping policies, driving innovation, and fostering inclusive growth across all sectors of society.

Roles and Responsibilities of Youth

The youth of today are not merely beneficiaries of progress but active architects of change. Their roles extend beyond academic pursuits to encompass civic engagement, community leadership, and advocacy for social justice. By embracing their responsibilities with zeal and determination, the youth can catalyse positive transformations and contribute to the holistic development of the nation.

Impact of Motivation and Appreciation on Career Development

Motivation and appreciation serve as cornerstones in the journey of career development. In a dynamic and competitive job market, the youth thrive when their efforts are recognized and valued. By fostering a culture of encouragement, mentorship, and appreciation, organizations can unleash the full potential of their young workforce, driving innovation and excellence across industries.

Entrepreneurship and Societal Challenges

Entrepreneurship emerges as a potent force for addressing societal challenges and driving inclusive growth. Aspiring entrepreneurs have the opportunity to ideate, innovate, and implement solutions that tackle pressing issues such as poverty, healthcare, and education. By fostering an ecosystem that nurtures entrepreneurship and supports risk-taking, India can unlock new avenues of economic empowerment and social impact.

Sustainability

Sustainability lies at the heart of India's progress story, ensuring that development is not achieved at the expense of future generations. The youth play a pivotal role in championing sustainable practices, advocating for environmental conservation, and promoting eco-conscious behaviors. By embracing renewable energy, reducing waste, and adopting green technologies, they can pave the way for a more resilient and sustainable future.

Industry 5.0

Industry 5.0 heralds a new era of industrial revolution, characterized by the seamless integration of human ingenuity with advanced technologies. As the workforce of tomorrow, the youth must adapt to the changing landscape of work, harnessing the power of automation, artificial intelligence, and digitalization. However, amidst the technological advancements, it is essential to prioritize human well-being, ensuring that Industry 5.0 fosters inclusive growth and equitable opportunities for all.

Humanity and Integration

In a diverse and pluralistic society like India, fostering a sense of humanity and integration is paramount. The youth have the power to bridge cultural divides, celebrate diversity, and promote social cohesion. By cultivating empathy, compassion, and understanding, they can build a more inclusive society where every individual is respected, valued, and empowered to contribute to the nation's progress.

As we navigate the landscape of a Progressive India, let us recognize the pivotal role of the youth in shaping our collective destiny. Empowered with knowledge, driven by passion, and guided by values, they hold the key to unlocking India's true potential. By embracing their roles and responsibilities with courage and conviction, the youth can lead the nation towards a future that is prosperous, inclusive, and sustainable for generations to come.

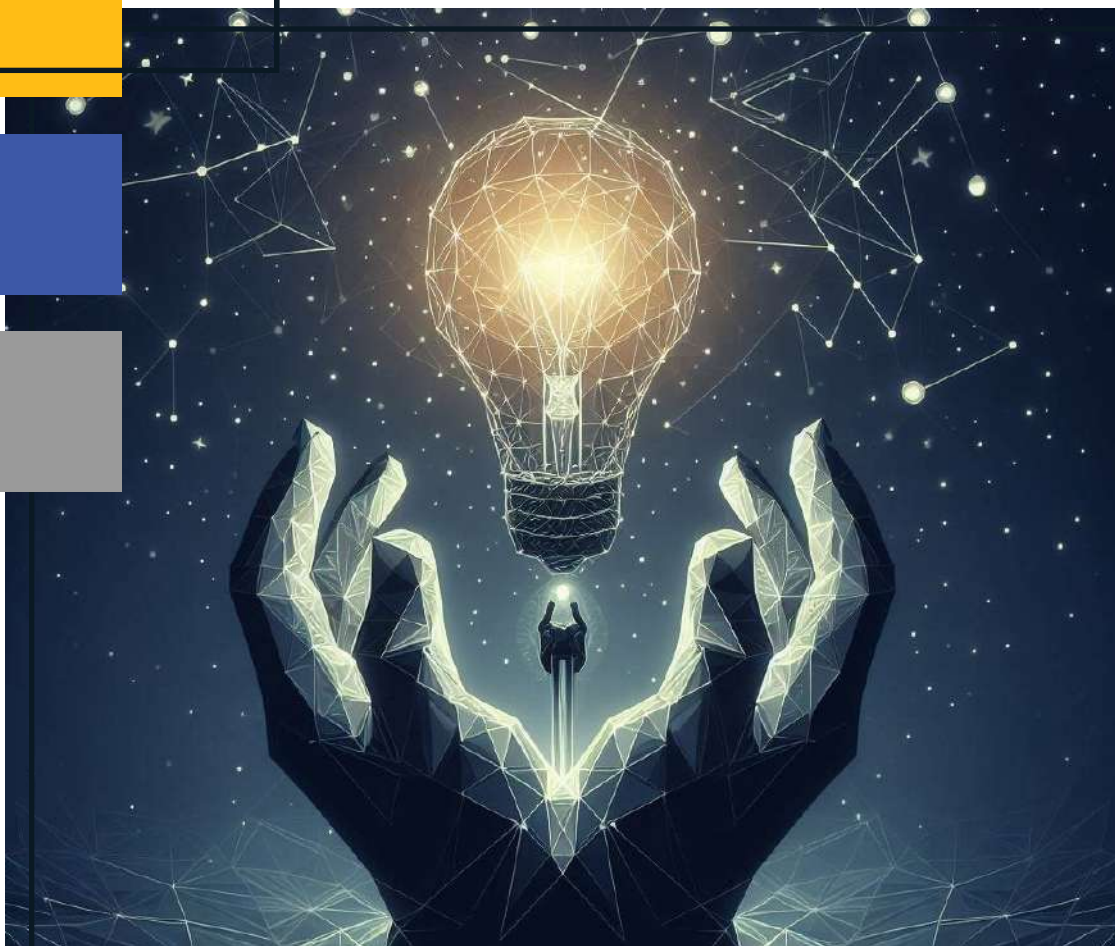
The Power of Independent Thought and Self-Examination

Harshita Maratha, B.Tech

“Carve out some time each day to ask ourselves why we are here, how we are living, and whether we are making the highest use of gifts that life has given us make the time to think daily!”

The Concept of independent thoughts refers to the ability to form one's own opinions and ideas without being overly influenced by others. It involves critically evaluating information considering various perspectives and arriving at a conclusion based on one's analysis and understanding. It also revolves around maintaining a balance between considering external input and trusting one's judgment. External input can be reading the book of another person which reflects their truth. Other instances could be listening to an influential orator at a seminar who could guide you, motivate you, and win your heart through his powerful oratory. Internal input on the other hand depends upon your analysis and your perspective of looking at things. Learning

what others think will help you figure out what you think but true success is achieved once you live by your philosophy. Self-examination nurtures self-awareness and it is the first step to personal – greatness. It allows individuals to recognize their strengths, weaknesses, values, and beliefs. It promotes personal growth and development and helps them enhance their qualities and become the best version of themselves. When people examine themselves they gain the confidence and courage to pursue their dreams, overcome obstacles with determination, and celebrate their unique strengths and accomplishments. Awakening our mind, body, heart, and spirit are the four fundamental



dimensions that are necessary to discover who we are. We start down the path to fulfilment and completeness by promoting these aspects. First of all, the secret to knowing oneself is within our minds. We become clearer and more self-aware when we think for ourselves and reflect on our inner lives. This helps us overcome social pressures and discover our true selves. Taking care of our bodies is essential. We honor our physical well-being by engaging in mindful activities like regular exercise and a balanced diet, which promotes vitality and balance in our lives.

Our hearts lead us to accept and value our feelings and desires. Our ability to connect with our true feelings and build deeper relationships and genuine love is facilitated by practicing self-compassion. Through practices like meditation and introspection, we tap into inner peace and wisdom, aligning ourselves with a greater sense of purpose and connection. In conclusion, by awakening these four dimensions, we unlock our true selves. As we navigate life's journey, may we embrace who we are, finding fulfillment and harmony within.

“Life sends us not what we want but who we are”

Humanity And Integration

“Humanity’s strength lies not in uniformity, but in the harmonious integration of diverse voices—a symphony of empathy, where every note contributes to the melody of our shared existence.”

Our shared existence resembles a grand concert hall, where each person embodies a unique instrument. Whether it’s the melancholic strain of a violin or the triumphant call of a trumpet, every note contributes to the overall harmony. Our diversity is our strength—much like an orchestra featuring violins, cellos, flutes, and drums. Uniformity, akin to an orchestra with only one instrument, lacks depth and richness. Empathy takes center stage as the conductor. It guides us, ensuring that each note resonates with compassion. When we truly listen to others, we harmonize—bridging gaps, understanding pain, and celebrating joy. As we play our individual tunes, we weave a collective melody. Empathy binds us, creating a symphony that transcends borders, languages, and time—a masterpiece of shared existence.



Embracing Unity in Adversity

Khushi Mukesh Modi, B. Tech

“In times of crisis, unity is strength; division is weakness.”

Emily Greene Balch

In diversity there is beauty and there is strength. In the symphony of life, humanity stands as the conductor, orchestrating the delicate balance of integration. Each note, each melody, represents the diverse voices of our world coming together in harmony, weaving a tapestry of resilience, empathy, and love.

Picture a scene where the sun dips below the horizon, casting a warm glow upon faces from every corner of the globe. It is a moment frozen in time, where the barriers of language, culture, and nationality fade into insignificance, replaced by a shared sense of belonging. In this moment, we are not strangers but kin, bound by the unbreakable bonds of our common humanity.

Imagine a world where every heart beats to the rhythm of empathy, where every soul is embraced with open arms. It is a world where differences are not feared but celebrated, where the kaleidoscope of cultures and beliefs is met with wonder and admiration. In this world, the human spirit soars, unfettered by the shackles of prejudice and discrimination, as we stand united in our shared humanity. Yet, like any great symphony, the journey towards integration is not without its crescendos and diminuendos. We hear the discordant notes of hatred and prejudice, echoing through the corridors of history, leaving scars that run deep. We witness the pain of those who are marginalized and oppressed, whose voices are drowned out by the clamour of injustice. And yet, in the midst of this cacophony, there is hope—a flickering flame that refuses to be extinguished.

It is the laughter of children playing in the streets, their innocence a testament to the universality of joy. It is the outstretched hand of a stranger, offering solace to those in need, bridging the divide between hearts with a simple gesture of kindness. It is the resilience of communities coming together in times of crisis, proving that strength lies not in isolation, but in solidarity.

At its core, integration is a dance—a dance of souls entwined in the rhythm of empathy and understanding. It is a celebration of diversity, where every shade of the human experience is welcomed with open arms. It is a journey of self discovery, as we confront our own biases and prejudices, and emerge stronger, more compassionate beings.

It is a journey of discovery, as we traverse the landscapes of empathy and understanding, learning from one another's stories and experiences. Each interaction, no matter how fleeting, leaves an indelible mark on the fabric of our collective consciousness, shaping the contours of our shared destiny. As we navigate the twists and turns of this journey, let us remember that integration is not merely a destination to be reached, but a continuous process—a commitment to fostering inclusivity, empathy, and mutual respect. Integration is not about erasing differences, but rather embracing them as a source of strength and



vitality. It is about building bridges of understanding that span the vast expanse of our shared humanity, fostering a sense of belonging and interconnectedness that knows no bounds. As we embark on this journey of integration, let us do so with open hearts and open minds, recognizing the inherent dignity and worth of every individual, regardless of background or belief.

The importance of integration becomes especially evident in times of adversity. Whether faced with natural disasters, global pandemics, or social upheavals, it is our ability to come together as a cohesive whole that enables us to overcome challenges and emerge stronger than before. In times of crisis, acts of kindness, solidarity, and cooperation abound, transcending boundaries and reaffirming our interconnectedness as human beings.

So let us raise our voices in unison, not in spite of our differences, but because of them. Let us build bridges where others see barriers, and cultivate gardens of empathy where hatred once took root. Let us be the architects of a new world—a world where integration is not just a goal to be achieved, but a way of life. For in the end, it is our humanity that defines us—a humanity that knows no borders, no boundaries, no divisions. It is this humanity that binds us together, uniting us in a symphony of hope, love, and belonging.



Industry 5.0

“Industry 5.0 bridges the gap between technology and humanity, emphasizing collaboration, creativity, and purpose-driven innovation.”

Industry 5.0 represents a pivotal shift where technology harmonizes with humanity, placing emphasis on collaboration, creativity, and purpose driven innovation. Unlike its predecessors focused solely on automation, Industry 5.0 integrates human ingenuity with advanced technologies like AI and robotics, fostering a synergy where machines augment human capabilities rather than replace them. This era champions inclusivity and ethical considerations, steering towards sustainable practices and societal well-being. It envisions a future where innovation is guided by human values, enriching industries with meaningful progress and reinforcing the interconnectedness between technology and human endeavor.

Future of Artificial Intelligence

Khushi Gandhi, B.Tech

“Artificial intelligence is not just about building machines; it’s about empowering humanity with new tools and possibilities.”

Artificial intelligence (AI) has a promising future, but it also faces significant challenges. AI is expected to become more prevalent as technology advances, revolutionising industries such as healthcare, banking, and transportation. AI-driven automation will transform the labour market, prompting the creation of new professions and skills.

Health Care Industries

Robotic surgery is one of the most prevalent applications in healthcare. AI robots in healthcare have transformed surgical procedures, lowering the danger of human error, discomfort, and other complications.

Robotic surgery allows surgeons to operate on patients with greater efficiency, precision, and control. In reality, they enhance physicians’ capabilities by

improving imaging and increasing accuracy in factors such as speed, depth, and trajectory.

Robotic-assisted operations provide various advantages to patients, including reduced pain and scarring and faster healing times. Furthermore, patients and healthcare providers can reap numerous benefits from AI in healthcare.

AI in Education

Artificial intelligence is transforming the way we learn and teach. AI is paving the way for an exciting future in education by personalizing learning, automating administrative duties, providing novel instructional content, and much more. However, it is critical to address ethical concerns and guarantee that education remains a beacon of opportunity and prosperity in a rapidly changing world.



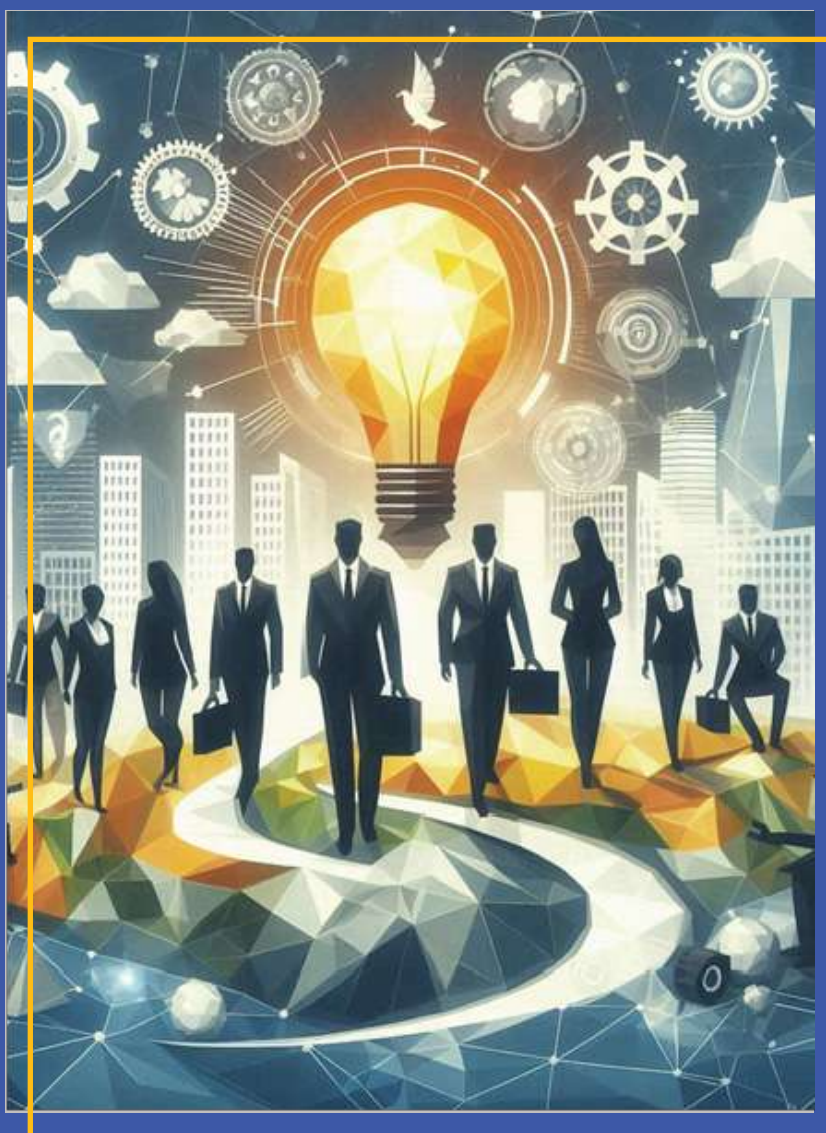
Education is changing, and artificial intelligence is making way for more personalized, efficient, and inclusive learning. The future of education has arrived, fuelled by AI innovation. As a society, we must embrace this development and collaborate to guarantee that education remains a source of opportunity and advancement in an ever-changing world.

AI in Military and Cybersecurity

AI-assisted military technologies have created autonomous weapon systems that do not require personnel, resulting in the safest way to improve a nation's security. In the near future, we may see robotic military that is as intelligent as a soldier/commando and capable of performing a variety of tasks. Using AI-assisted methods can improve mission efficiency while maintaining safe execution. One concern about AI-assisted

systems is that the algorithm they use is not completely explainable. Explainable it is crucial as deep neural networks continue to develop and grow. When technology gets into the wrong hands or makes poor decisions on its own, it can have disastrous consequences.

Yes, that's right! If we wish to be a part of AI in the future now is the time to enrol in our top-performing programs, and land our dream job. Explore our comprehensive comparison of our top AI programs to make an informed decision that propels our career forward in the exciting field of AI. Discover the details, features, and benefits of each program, and find the perfect fit that aligns with your goals and aspirations.



Entrepreneurship and Societal Challenges

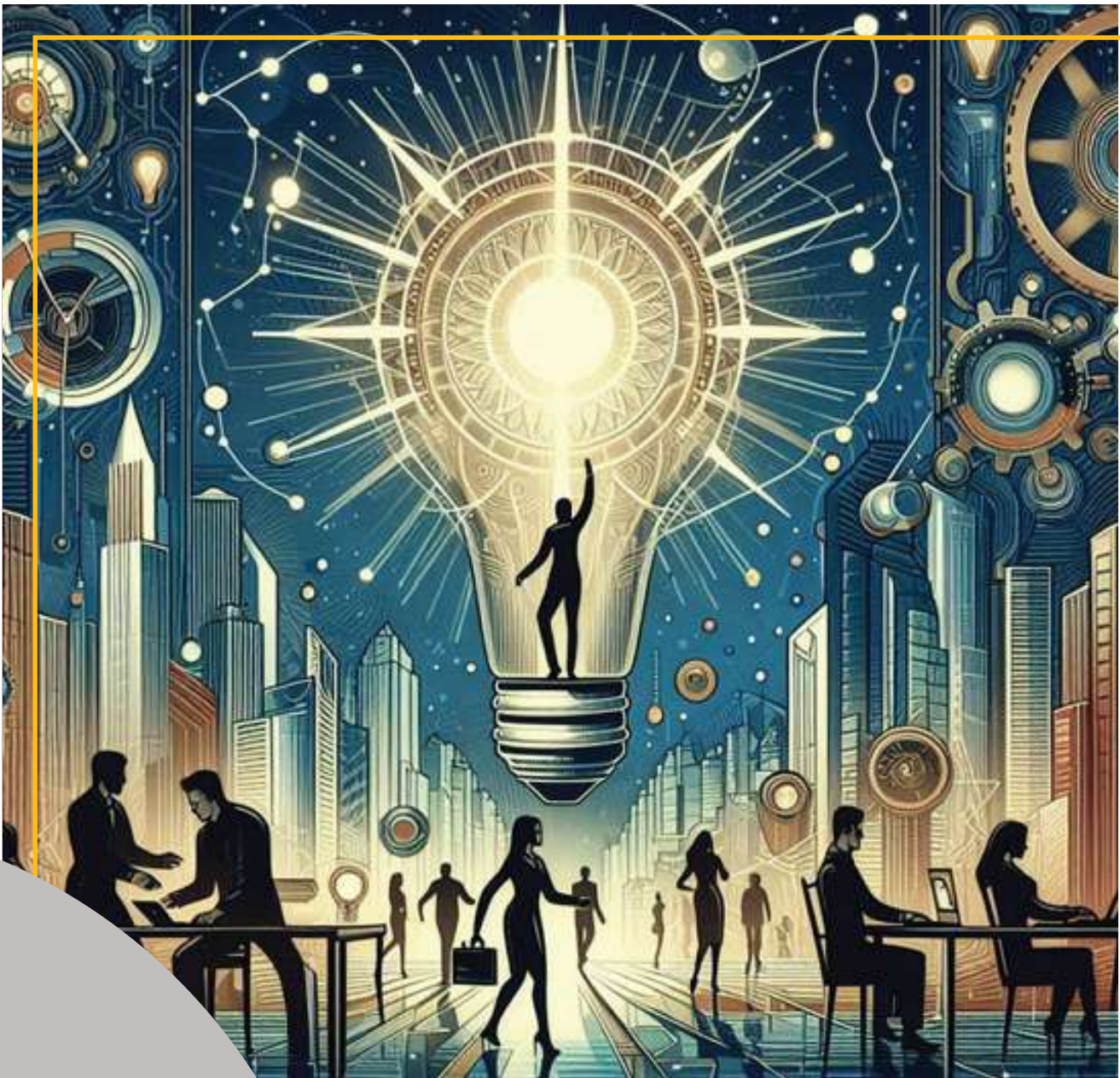
“Entrepreneurship isn’t just about creating wealth; it’s about solving societal challenges with innovation and determination, shaping a better future for all.”

Entrepreneurship plays a pivotal role in addressing societal challenges. By fostering innovation, creating jobs, and driving economic growth, entrepreneurs contribute to solutions for issues such as poverty, environmental sustainability, and healthcare access. Their ability to adapt, collaborate, and think beyond profit margins empowers positive change on a global scale.



The Dummy Machines & Bots v/s Start-ups

Ashish Patel, B.Tech



“I HATE being addressed by machines. We have a microwave that says, “Enjoy your meal!” when the bell goes off, even if you have only warmed up a cup of coffee. I tell the microwave to shut up, though not exactly in those words.”

When the professionals were busy thinking of being replaced by the AI chatbots, someone somewhere was busy building the kingdom. A kingdom of their giant startups.

Yes, this is the only thing AI bots can never do even after being programmed and engineered for decades. The Chatbots can never think of a new idea, they can never understand the society needs, the innovations to make life easier and so on. Rather than this, there are certain limitations too like they cannot perform physical actions, experience emotions or feelings, make moral judgments, or engage in creative activities that require intuition or imagination.

“Entrepreneurship is about being able to identify a problem and provide a solution to that problem in a profitable way.”

-Daymond John, Founder of FUBU and Shark Tank Investor

AI bots cannot replace the creativity, passion, and innovation that is necessary for starting a successful business.

Start-ups require a unique set of skills and attributes that cannot be replicated by AI bots. One of the most critical of these is creativity. Entrepreneurs must be able to think outside the box and come up with new and innovative ideas that will set their business apart from the competition. This requires a level of creativity that AI bots simply cannot match.

Another essential skill for start-ups is passion. Entrepreneurs must be passionate about their business and fully committed to its success. Starting a business requires a lot of hard work, long hours, and sacrifice. AI bots are not capable of feeling passion or being fully committed to a project.

Finally, starting a business requires a willingness to take risks. Entrepreneurs must be willing to take calculated risks, try new things, and accept the possibility of failure. This is a trait that cannot be replicated by AI bots, which are designed to minimize risk and optimize performance.

AI bots have many advantages, they cannot replace the creativity, passion, innovation, emotional intelligence, adaptability, and risktaking that is necessary for starting a successful business. Entrepreneurs must be willing to take on these challenges and bring their unique skills and attributes to the table. AI bots can assist

with certain tasks, but they cannot do start-ups. Entrepreneurship is not for the faint of heart. It requires grit, determination, and a willingness to take risks. It's about being resourceful and creative, finding innovative solutions to complex problems, and never giving up in the face of adversity. Entrepreneurs are the engine of innovation, introducing new products, services, and business models that disrupt established markets and create new ones.

Entrepreneurship is the backbone of any economy, driving innovation, creating jobs, and fuelling economic growth. At its core, entrepreneurship is about identifying an opportunity and then taking the necessary risks to turn that opportunity into a successful business venture. One of the most exciting aspects of entrepreneurship is that it is open to anyone. It doesn't matter your background, your education, or your experience. All you need is an idea, a willingness to work hard, and the courage to take risks.

The Two guys from Indore FROM ONE OUTLET IN INDORE TO MORE THAN 200 OUTLETS ACROSS INDIA: THE STORY OF CHAI SUTTA BAR

The Brand started in 2016 by two friends, Anubhav and Anand. Over the years, the chain has expanded to over 100 outlets across the country, with plans to expand further. Despite some controversy over the promotion of smoking, the chain remains popular with young people who enjoy the laid-back atmosphere and affordable prices.

“Chase the vision, not the money; the money will end up following you.”

-Tony Hsieh

Despite the rise of AI technology, entrepreneurship remains a distinctly human endeavour, fueled by creativity, passion, and a willingness to take risks. The story of *Chai Sutta Bar* exemplifies the spirit of innovation and perseverance that drives successful startups, proving that genuine human ingenuity is irreplaceable in the business world. As long as there are visionaries like Anubhav and Anand, the realm of entrepreneurship will continue to flourish, creating opportunities and shaping the future of economies worldwide.



India@2030: A Vision Shaped by Youth

Imagine India in 2030—it's like looking into the future! By then, India is predicted to be the third largest economy in the world. But it's not just about money. It's about how young people like us will shape this future. We're like the artists painting a picture of progress and change. Our energy and ideas will make India a better place for everyone. India is set to become the third largest economy by 2030. India in 2030 will be a playground for growth and innovation for consumer business.

Imagine India in 2030: a beautiful picture painted with progress, innovation, and social change. This future relies on its young people, full of potential and the ability to make a better tomorrow.

Youth as Architects of Progress:

Young minds hold the key to addressing societal challenges like poverty, inequality, and environmental issues. Their fresh perspectives and boundless energy can fuel innovation, drive entrepreneurship, and foster a more inclusive and sustainable

We are the Future of India, Let's Make a Better Tomorrow

P. Sri Madhuri

society. By actively participating in their communities, engaging in responsible citizenship, and embracing continuous learning, they can become the architects of positive change.

Motivation and Appreciation: Fueling Potential

Intrinsic motivation, the passion for learning and growth, is the cornerstone of personal and professional fulfillment. Recognizing and appreciating achievements creates a supportive environment where individuals can thrive. Mentorship and guidance from experienced individuals can further empower young people to navigate their career paths and unleash their full potential.

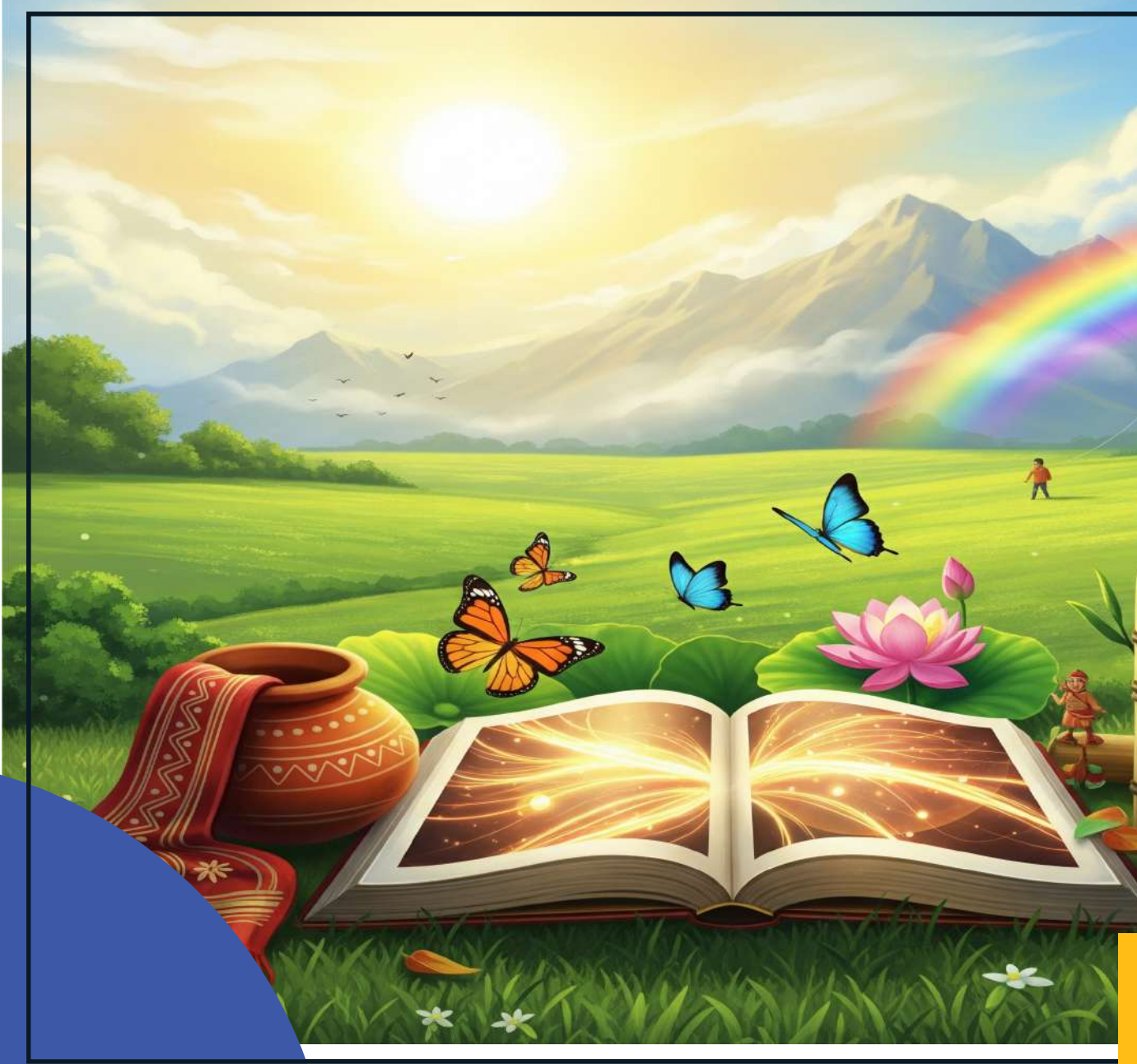
So friends, as we move towards India@2030, we know it's not a one-person job. It's a team effort! Each one of us, no matter how young or old, has a role to play. By staying motivated, supporting each other, and learning from mentors, we can make our dreams for India a reality. Let's work together towards a future where everyone can shine bright and India stands tall as a symbol of growth, innovation, and togetherness. Remember, the journey to India@2030 is a collective effort. Every individual, young and old, has a role to play. Stay motivated, stay engaged, and work together to build a brighter future for all.

India@2030

“India@2030: A vision where innovation, opportunity, and inclusive growth converge to propel our nation towards global leadership and societal prosperity.”

India@2030 envisions a transformative leap towards becoming the world's third-largest economy, harnessing the dynamism of its youthful population. Focused on inclusive growth and innovation, this future sees India as a hub of technological advancement, sustainable development, and social progress. With a burgeoning entrepreneurial spirit and a commitment to addressing societal challenges, India@2030 aims to elevate standards of living, empower its citizens, and lead on the global stage. Embracing diversity and driven by youth-driven initiatives, this vision promises a vibrant tapestry of opportunities, shaping a promising tomorrow where India shines as a beacon of economic resilience and cultural richness.





આઓ નયા એક રાષ્ટ્ર બનાવું
અચ્યુત , B.Tech CSE



रक्त पसीने से ये भूमि सींच कर,
संकट—पर्वत पर श्रम की रस्सी खींच कर,
भारत को सफलता के शिखर पहुँचाएं,
आओ नया एक राष्ट्र बनाएं।

जात—पात का बंधन तोड़ कर,
देश को एकता के सूत्र में जोड़ कर,
कंधे से कंधे को मिलाकर,
सबके मन में साहस भरकर,
मातृभूमि की शान बढ़ाएं,
आओ नया एक राष्ट्र बनाएं।

कांल—क्रोध—द्वेष—क्लेश—कलह,
इनकी न हो कोई जगह,
प्रेम की सब भाषा जानें,
प्रेम के ही शब्द पहचानें,
रक्त—रंजित भूमि पर, प्रेम के सुंदर रंग लगाएं,
आओ नया एक राष्ट्र बनाएं।

सबके भाषाओं का करें सम्मान,
रखकर राष्ट्रगौरव का ध्यान,
अपनी आन हो भारत की शान,
भारत ही हो हम सबकी जान,
सब मस्तक पर तिरंगा सजाएं,
आओ नया एक राष्ट्र बनाएं।

जग राष्ट्र का उज्ज्वल नाम करें,
वंदना इसकी सुबह—ओ—शाम करें,
विश्व में अपना परचम लहराएं,
सबको अपना दम दिखलाएं,
हमारी ताकत का अहसास दिलाएं,
आओ नया एक राष्ट्र बनाएं।

अच्युत 'बालक'

Progressive India

Rajveer Singh Rathore, MBA

“We do not need acts, but action,” says Prime Minister Narendra Modi in his promise to the nation to make it a superpower and create a landmark by the 75th year of independence for India. The New India is an India with a more conducive business environment, a more empowered citizenry, and a better infrastructure among many other interesting initiatives that the government has been planning and implementing surely and steadily. The New India is the dream of more than 135 crore Indians, which is unfolding right before our eyes. It is driven by innovation, hard work, and creativity, characterized by peace, unity, and brotherhood, and free from corruption, terrorism, black money, and dirt. Several initiatives taken by the Government of India point in the direction of making India one of the greatest superpowers in the world. The Make in India initiative, the Pradhan Mantri Jan Dhan Yojana, the Swachh Bharat Abhiyan, The Digital Dhan initiative, and the subsequent launch of the Bhim App are all programs that are launched to mobilize people and resources towards creating a better future. Today, more than 40% of all payments done in India are digital, with UPI having a lion’s share, used by over 30 crore individuals and over 5 crore merchants. UPI is used at all levels from street vendors to large shopping malls. From a cashless economy to digital connectivity to sanitation to child mortality to housing reforms, the country is moving towards a secure and progressive economy.

In the tapestry of nations, India stands as a vibrant canvas, weaving a story of evolution and progress. As the world hurtles forward into the future, India’s journey toward progress becomes increasingly noteworthy, marked by economic advancements, social reforms, and technological innovations.

One of the key pillars of India’s progressive trajectory lies in its economic landscape. The country has experienced substantial growth, with a burgeoning middle class and a thriving entrepreneurial spirit. Initiatives like ‘Make in India’ and economic reforms have fostered a favorable environment for business and investment, propelling the nation towards becoming a global economic powerhouse.

Social reforms have been instrumental in reshaping the fabric of Indian society. Policies promoting gender equality, education for all, and affirmative action have played a crucial role in dismantling traditional





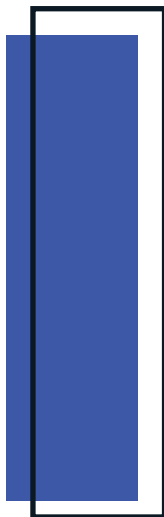
barriers. The empowerment of women is evident across various sectors, from politics to corporate boardrooms, exemplifying a commitment to inclusivity and diversity. Technological advancements have emerged as a catalyst for change in India. The country's IT sector has gained international acclaim, contributing significantly to global innovation. With a burgeoning start-up ecosystem, India has become a hotbed for technological creativity, fostering solutions to address local and global challenges.

In the realm of infrastructure, transformative projects are reshaping the physical landscape of the nation. The 'Smart Cities' initiative, coupled with extensive connectivity projects, is laying the foundation for sustainable urban development. Highways, airports, and ports are undergoing significant upgrades, facilitating seamless connectivity and boosting economic activities.

India's commitment to sustainable development is evident through its focus on renewable energy. The push towards solar and wind power reflects a conscientious effort to reduce the carbon footprint and combat climate change. Education remains a cornerstone of India's progress, with initiatives like 'Digital India' driving technological integration into the learning ecosystem. Online education platforms, coupled with innovative teaching methodologies, are democratizing access to knowledge, empowering a new generation with the skills needed for a rapidly evolving global landscape.

India, before the advent of the colonial powers, contributed to over a quarter of the global GDP which went down to less than 4% when they left with industry decimated and an administrative system that was geared to serve the interests of the colonial masters. In the last seven decades, India has engineered Green, Yellow, and White Revolutions with continuous upgradation in technology in the agricultural and food processing areas not only to meet the demand of the increasing population but has also emerged as a net exporter and helper to the world.

India has also emerged as a credible nuclear and space power in the world- the tools it intends to employ for the global good. Prime Minister Narendra Modi while speaking at the inaugural of curtain raiser activities of the Azadi Ka Amrit Mahotsav reiterated and reaffirmed that "We are proud of our Constitution. We are proud of our democratic traditions. The mother of democracy, India is still moving forward by strengthening democracy. India, rich in knowledge and science, is leaving its mark from Mars to the Moon.



“भारत के लिए मेरे सपने एकता, नवाचार और असीम अवसरों के धागों से बुने हुए हैं - एक ऐसा ताना-बाना जिसमें हर नागरिक की आकांक्षाओं को ऊंची उड़ान भरने के लिए पंख मिलते हैं।”

जहां हर इंसान खुश हो
और इंसान इंसान का हो प्यारा,
ऐसा हो भारत देश हमारा ।

जहां खेतों में हो हरियाली,
हर घर में जहां हो खुशियाली,
ऐसा हो अखंड भारत हमारा ।

जहां कोई दुःखी न हो,
न हो बेसहारा,
ऐसा हो अतुल्य भारत हमारा ।

वेदों की महिमा ऋषियों ने गाई
भारतीय संस्कृति विश्व में समाई ।

बढ़ता रहे राष्ट्र का गौरव प्यारा,
ऐसा हो पूजनीय भारत हमारा ।

उत्पाद बढ़े भारत में शिक्षा का प्रसार हो
जाए,
स्वदेशी उत्पाद से देश आत्मनिर्भर हो
जाए ।

जीवन में बढ़ने का ध्येय हो हमारा,
ऐसा आत्मनिर्भर भारत हो हमारा ।

खुशियां और शुभता का संचार हो जहां,
कोई दुखी और बेसहारा ना हो वहां ।
प्रगतिशील भारत हो जग में न्यारा,
ऐसा अप्रतिम भारत हो हमारा ।

मेरे सपनों का भारत
मनीषा सेन, MBA



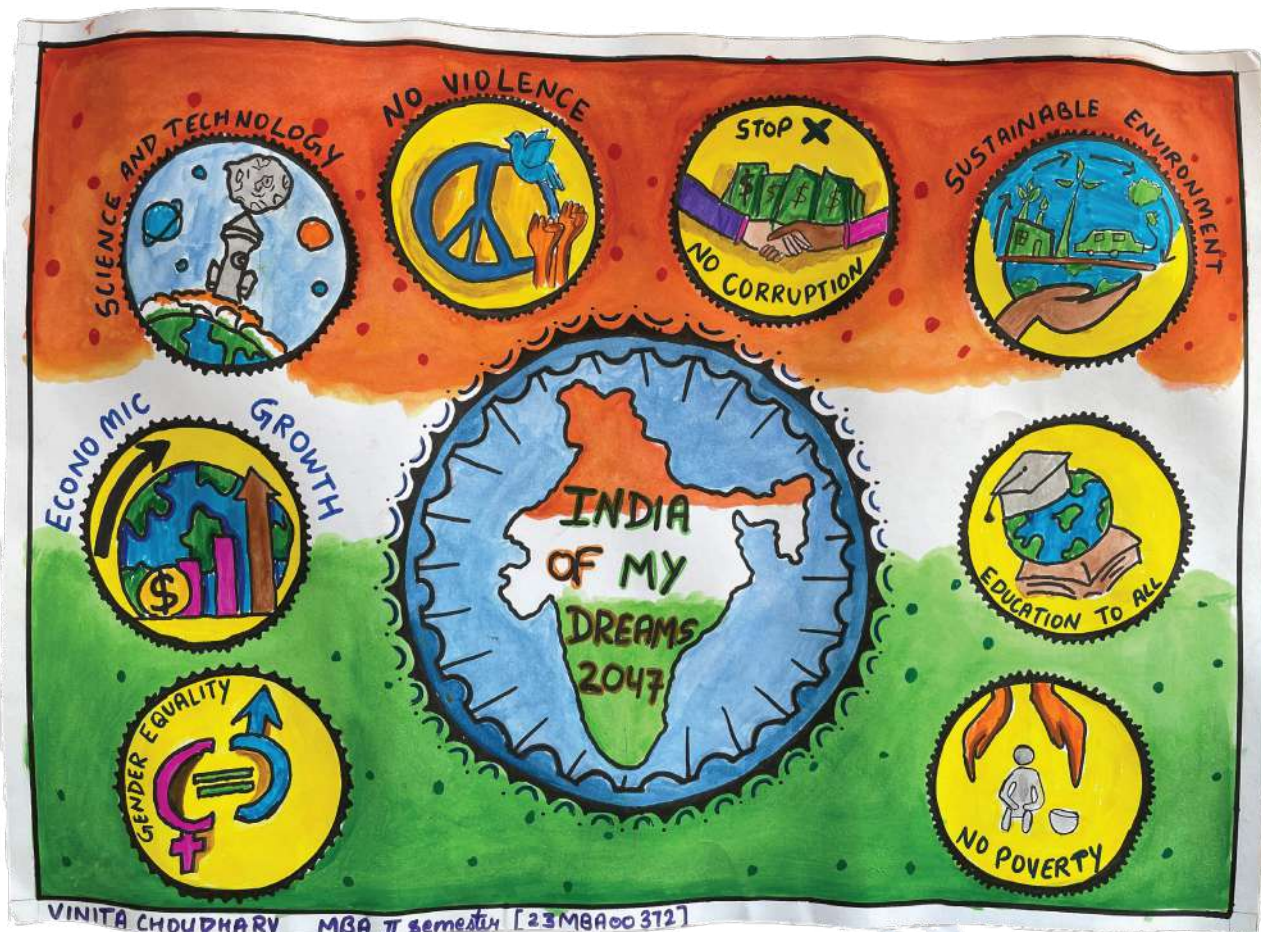


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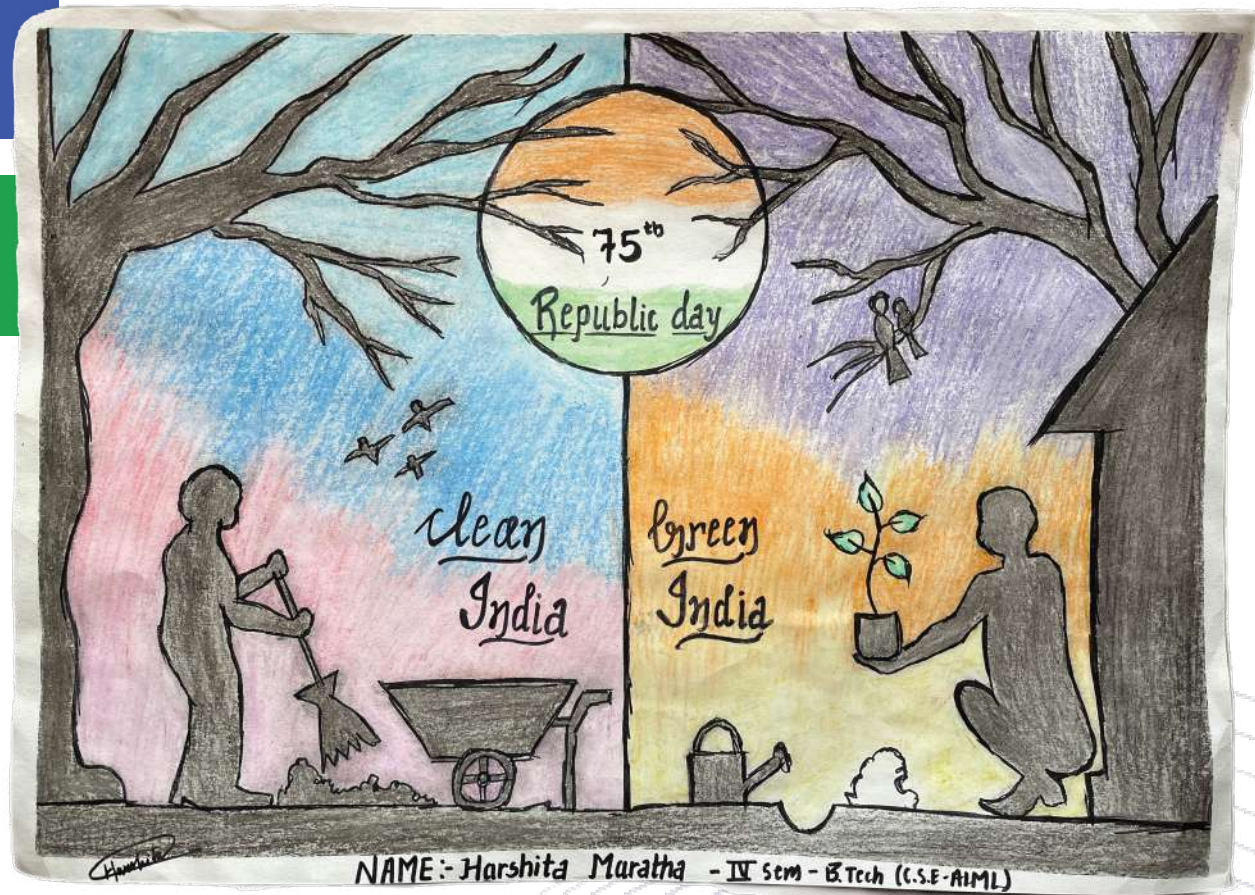
TIVE MINDS





"Where every street hums the anthem of cleanliness,





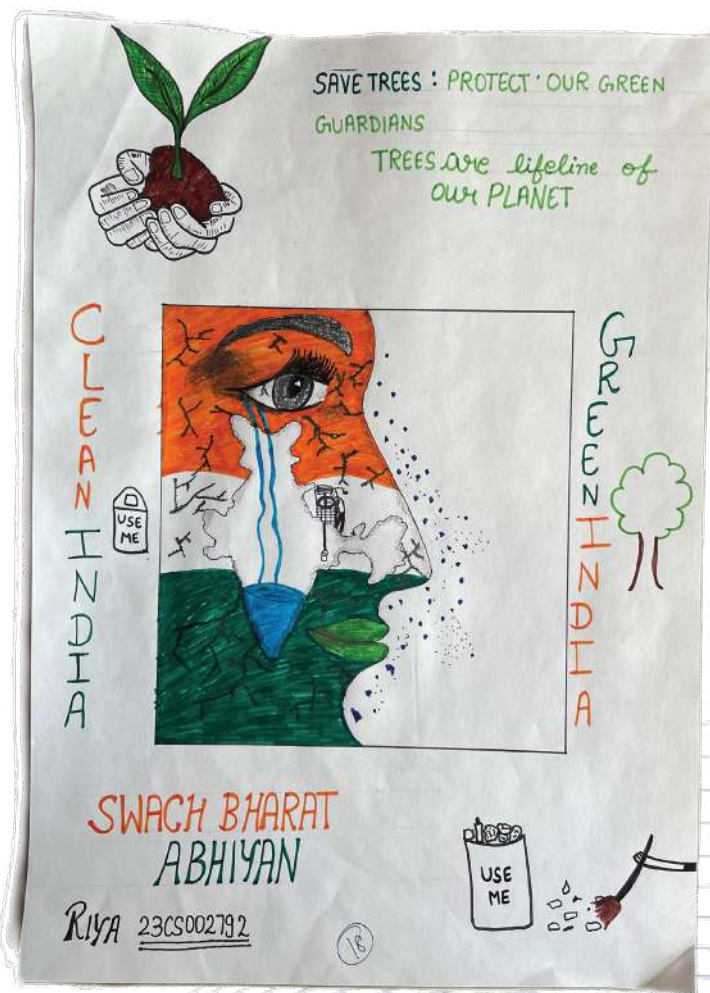
That's the India of my dreams, pristine and boundless."

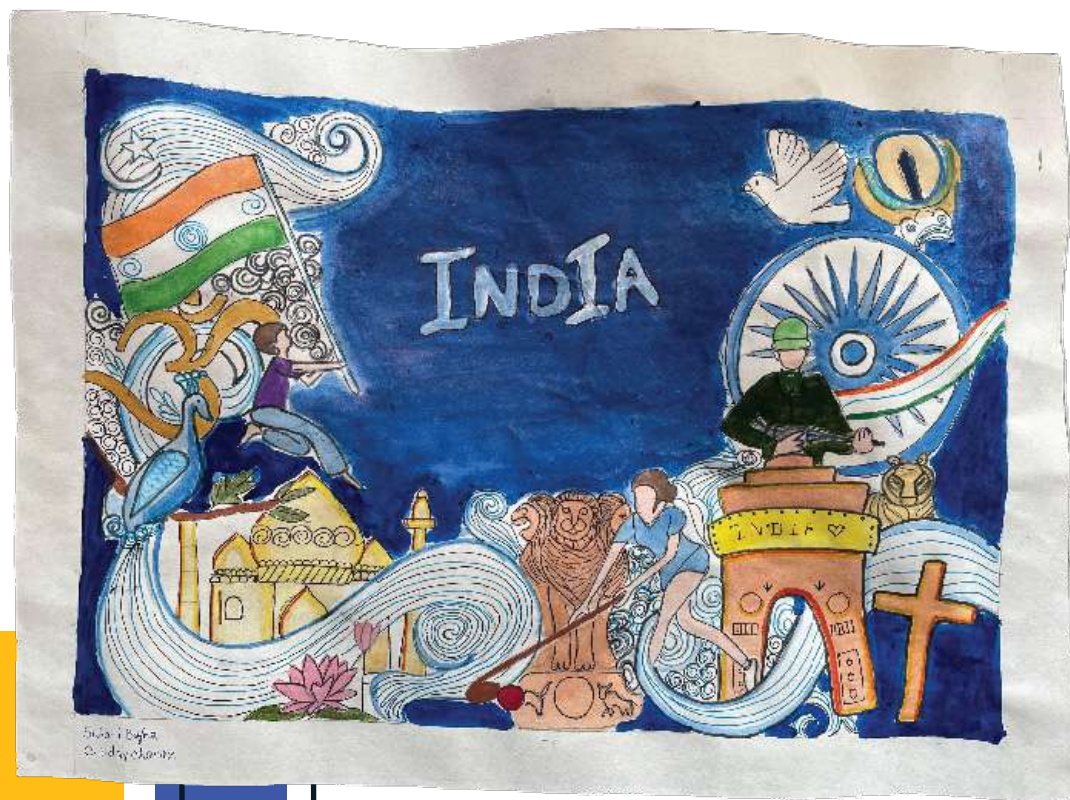




“In a realm where purity reigns, my dream of India flourishes, ever clean, ever serene.”







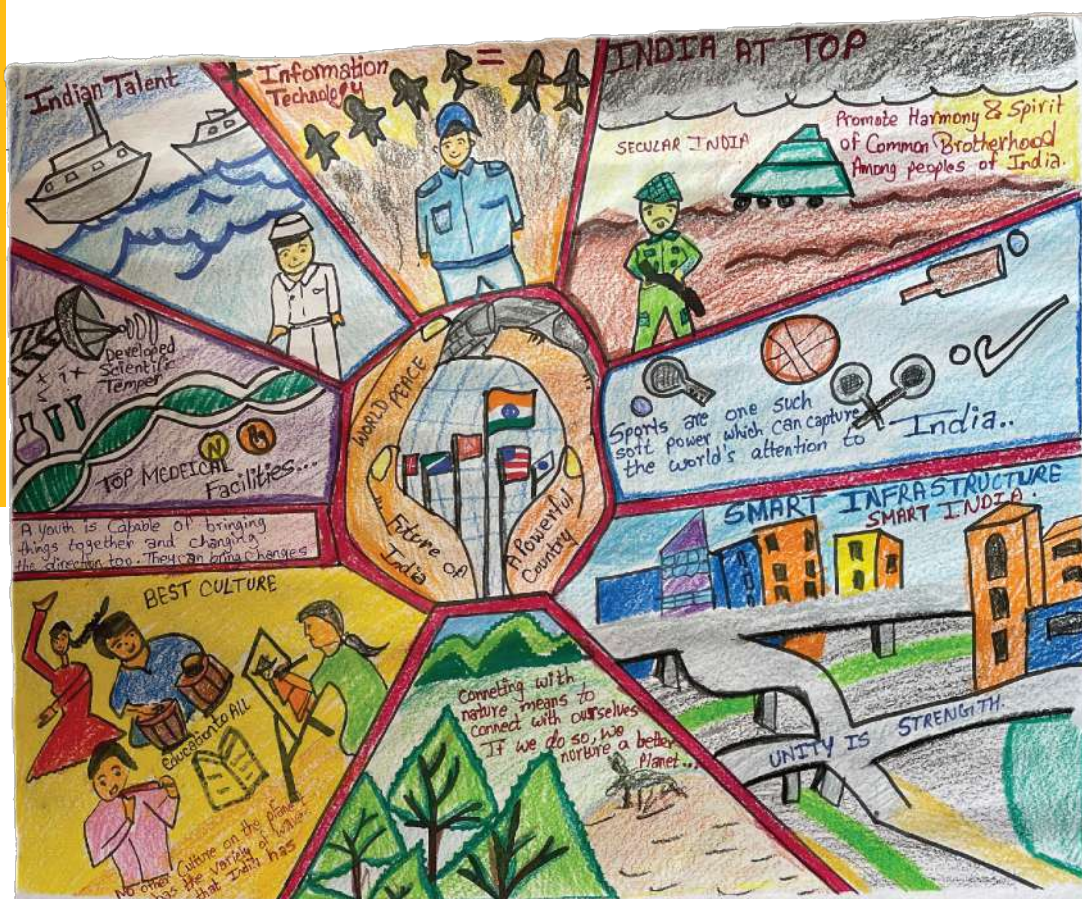


“India’s canvas, a mosaic of art, where every stroke tells a tale of the heart.”

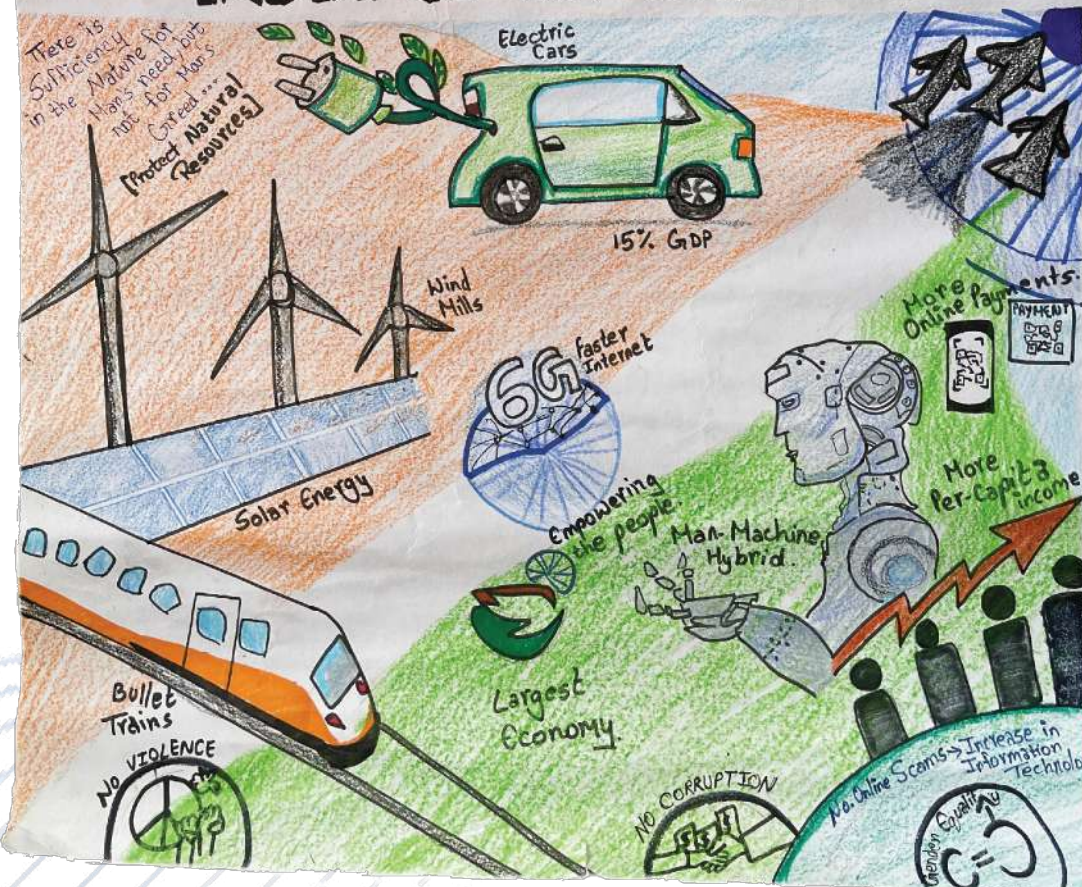




UMA SUTHAR
ANSHUL MATHUR
(2nd YEAR BTECH)



INDIA OF MY DREAMS



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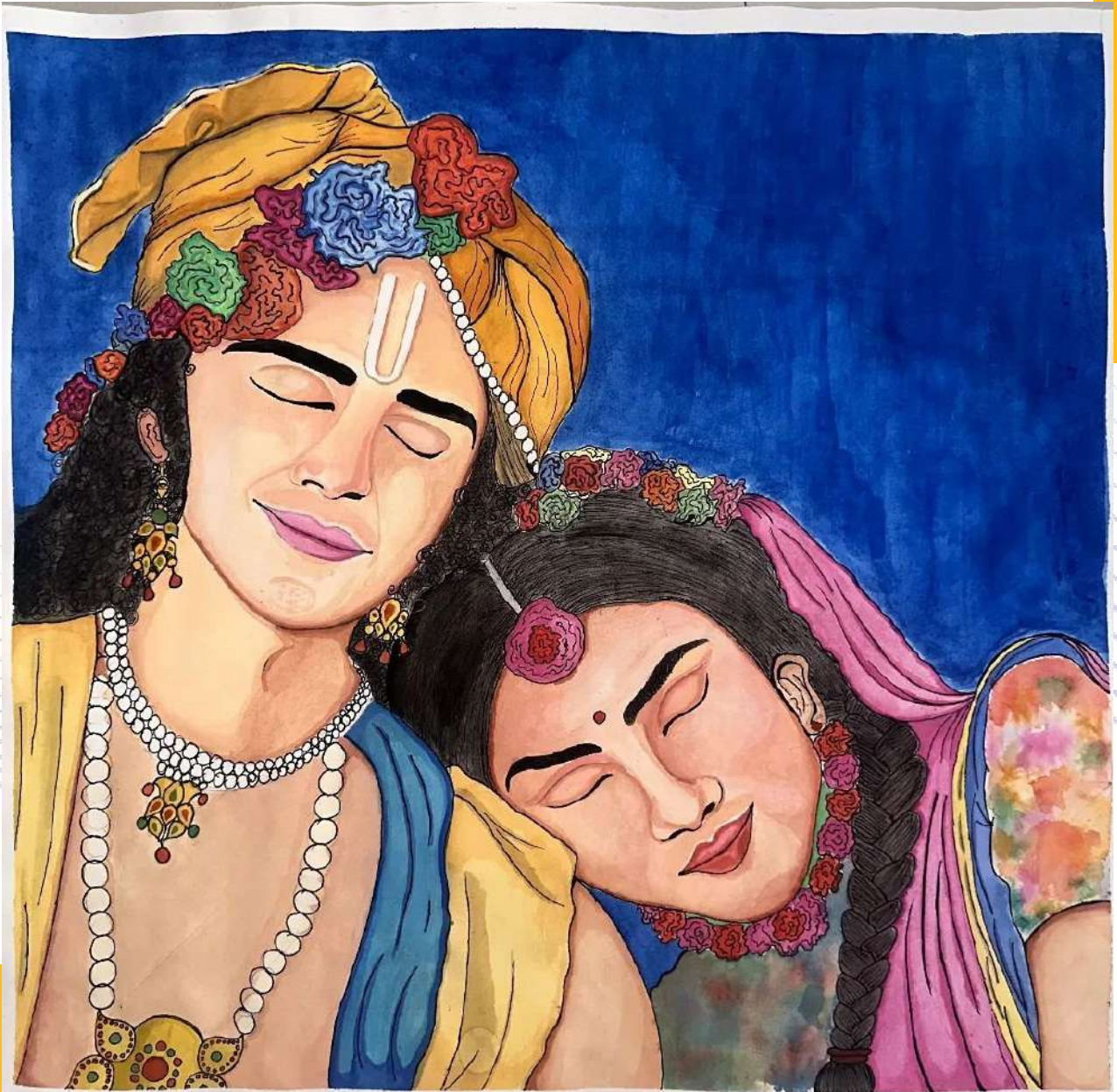
he Artists



Suthar, BBA



Lavanya Agarwal, B. Tech



Mitanshu Agarwal, BBA



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