

 **Rai University**
EVOLVING THINKING MINDS
Ahmedabad

RSE CONNECT DIGITAL NEWSLETTER



JAN TO MAR 2025

Our Website

 www.raiuniversity.edu



ABOUT RAI SCHOOL OF ENGINEERING

- **Rai School of Engineering is constituent college of Rai University, Ahmedabad established in 2013. Rai School of Engineering a constituent School of Rai University consists of Diploma, B. Tech Degree, BCA, B.Sc. IT and MCA Programmes. RSE emphasizes on skill development, Project based learning and ICT enabled pedagogies to provide Outcome based education to the budding Student fraternity. RSE is powered by distinguished Faculties who focus on Quality Research Papers, Chapters and Boos in addition to Patent publication and grant.**

VISION:

“To produce competent professionals to meet of the emerging technological advancements.”

MISSION:

To induce skill centric lifelong learning, problem solving and professional ethics.

To enable learner centric approach to apply emerging technologies and applications.

To promote quality education in the advance learning by industry collaboration.



CSE/IT Department Vision and Mission

VISION

- To emerge as front runner in Computer Science and Engineering education and to transform the students into globally competent professionals with expertise in software development and aptitude for research and ethical values.

MISSION

- Inculcate problem solving and team building skills.
- Provide the necessary conducive environment for promoting Analytical Learning.
- Provide the ambience to become industry ready Professionals, Researchers and
- Entrepreneurs by offering courses on cutting edge technology and advanced laboratory courses for the students.
- Create positive mindset for digital automated and innovative solutions.

CSA Department Vision Mission

VISION

- To produce competent Computer Science and Application oriented Professionals to meet the changing global needs.

MISSION

- To promote problem solving and programming capabilities.
- To enable learners to prepare for the changes in Emerging Software Applications.
- To provide Industry collaboration and promote quality learning using Computing facilities.

Mechanical Department Vision and Mission (Diploma)

VISION

- To develop students into technically competent and talented professionals capable of meeting the requirements of industry and society

MISSION

- To providing an economical and high-quality technical education to satisfy ever-changing and demanding needs through a supportive Teaching-learning environment.
- To Providing service to society and industry by creating people with technical capabilities and an entrepreneurial spirit.
- To providing comprehensive education with professional moral principles to promote learners' harmonic growth.



Civil Department Vision and Mission (Diploma)

VISION

- To produce competent Engineers with the necessary skills and abilities to meet the Emerging requirements.

MISSION

- To enrich the knowledge and competencies required at par with changing methods.
- To prepare learners for knowledge enhancement with value and ethics.
- To ensure facilities for quality and life-long learning.

2nd Anniversary Special Message from the Dean's Desk:



It gives me immense pleasure to inform you that the RSE Connect (Quarterly e-Newsletter initiative by Rai School of Engineering) is celebrating its 2nd Anniversary. I congratulate the entire RSE Team on the outstanding support provided to the RSE Connect committee.

The objective of the RSE e-Newsletter was to inform the Stakeholders regarding the various initiatives undertaken by the Management, Faculties and Students. Initially conceptualized as an Internal Circulation Newsletter has steadily evolved into a communication channel to Alumni and Industry alike. Various Events like Tech Expo, Kurukshetra, Tech War, Ideation, Workshops, Industrial Visits, Educational Visits and Competitions have been extensively covered in the Newsletter. Interesting Articles by Faculty, Students, Alumni and also Industry representatives make this Newsletter initiative knowledgeable.

I encourage the Newsletter Audience to share your valuable input in the form of feedback so that we can continuously improve this initiative. Looking forward to active inputs from all to make RSE Connect a grand success.

Prof. (Dr.) Sailesh Suryanarayan Iyer

Dean, Rai School of Engineering

Rai University

Ahmedabad

Message from HOD



As we approach the end of another academic semester A.Y. 2024-25, I extend my heartfelt wishes to all students preparing for their exams—especially our final-year students, who are on the verge of earning their degrees and stepping into the industry. Your skills and knowledge will define your professional journey, so give your best effort, stay focused, and trust in the learning you have gained over the years.

It is with immense pride that I share the success of our students in various competitions. Many of you have earned recognition in hackathons and participated at the national level, demonstrating your technical abilities on esteemed platforms. Your achievements set a benchmark for future students, and I encourage you to keep this spirit of excellence alive while inspiring your juniors to step forward and set new milestones in their careers.

Beyond competitions, we are committed to ensuring that students gain hands-on industry exposure. Recently, our students undertook an industrial visit to Statue of Unity an inspiring symbol of national integration and technological advancement. During the visit, students explored the state-of-the-art exhibition hall, viewed engineering models showcasing the construction and innovation behind the world's tallest statue, and interacted with experts to understand the logistical, structural, and digital systems supporting the monument. These technologies are playing a vital role in shaping India's industrial progress, aligning with our nation's vision for 2047. Practical learning opportunities such as this allow students to bridge the gap between theoretical knowledge and real-world applications, enhancing their understanding of contemporary engineering challenges.

Alongside industrial experiences, students have been actively engaged in mastering classes and preplacement training programs designed to equip them with essential industry-ready skills. These initiatives help students prepare for evolving workplace demands, enabling them to enter the professional world with confidence. Additionally, I would like to take a moment to congratulate all those who showcased their innovations at Tech Expo 2025 on February 27th. Your enthusiasm and dedication reinforce the high standards of our department and demonstrate your ability to push boundaries in technology and engineering.

As always, **I remind you—“failure is not the end; it is merely the starting point toward success.”** Every challenge and setback is an opportunity to learn, evolve, and grow stronger. Embrace the journey, stay curious, and always strive for excellence. Wishing you all success in your exams and future endeavours. Let’s continue building a legacy of innovation and achievement together!

Best regards,

Mr. Kamlesh Patel

H.O.D. Department of Mechanical Engineering
Rai School of Engineering,
Rai University Ahmedabad



Message from Mr. Neel Mehta (Alumni & BoS member)



It was an absolute honour to be invited as a Judge for TechExpo 2025 at Rai University. As an alumnus, returning to my roots and witnessing the remarkable talent and innovation displayed by the RSE students filled me with immense pride. The level of technical knowledge, creativity, and dedication reflected in each project was truly inspiring.

I extend my heartfelt thanks to Prof. (Dr.) Sailesh Iyer and the entire Rai School of Engineering team for the warm welcome and this wonderful opportunity. Events like these not only celebrate innovation but also foster the spirit of learning and collaboration. I look forward to seeing these brilliant young minds shaping the future of technology.

Wishing continued success to all students and the Rai University family!

Exam Toppers
MCA I



Viradiya Krunal
Rameshbhai
SGPA:9.87



Vala Anjali Mukeshbhai
SGPA:9.48



Limbasiya Renish
Sanjaybhai
SGPA:9.48



Mithawala Jinal
Gautamkumar
SGPA:9.35

MCA III



Tukadiya Hiral
Rambhai
SGPA:9.69



Ashutosh Shukla
Mukeshbhai
SGPA:9.69



Mokriya Darshana
Rajubhai
SGPA:9.54



Kalathiya Priyaben
Ranchhodhbhai
SGPA:9.42

Events
Academic Events

Microsoft Career Program Orientation

The Rai School of Engineering at Rai University started the New Year with a forward-looking event aimed at preparing students for dynamic careers in the technology sector. Held on January 3rd, 2025, the "Microsoft Career Program Orientation" was a collaborative initiative between the university, the Institution's Innovation Council (IIC), and the Student Startup and Innovation Policy (SSIP). The event welcomed Mr. Rahul Bhargava, a Microsoft-certified expert and founder of R Dot Ventures Group, as the keynote speaker.

Mr. Bhargava's address was a blend of inspiration and practical knowledge. He shared insights into the tech industry's current trends, especially from Microsoft's ecosystem, and offered tips for students looking to break into tech-focused roles. With experience speaking at IITs and TEDx platforms, Mr. Bhargava emphasized skill-building, adaptability, and innovation. Students are engaged in an interactive Q&A session, gaining personalized advice on career development and entrepreneurship. The orientation marked an important step in fostering an innovation-driven mindset among budding engineers.



Seminar on Blockchain Technology

In 10th Jan 2025, the Rai School of Engineering organized an insightful seminar on "Blockchain Technology: Applications and Opportunities." The event brought together students, faculty members, and industry experts to explore the transformative power of blockchain beyond crypto currencies. The keynote speaker, an expert in blockchain development and fintech applications, highlighted how decentralized technologies are reshaping sectors such as supply chain management, healthcare, finance, and data security.

Participants were introduced to blockchain architecture, consensus mechanisms, smart contracts, and real-world case studies. The session also covered career prospects in blockchain development, including roles like blockchain architects, smart contract developers, and system auditors. Students gained clarity on how to pursue certifications and internships in the field. With an engaging Q&A session and live demonstrations of blockchain applications, the seminar deepened technical understanding and opened new avenues for engineering students to explore cutting-edge technology trends.



TECH EXPO 2025 – Project Exhibition

On February 27th, 2025, the Rai School of Engineering hosted its annual flagship event, TECH EXPO 2025. Organized in the AI Block Reading Room, the expo served as a platform for final-year and pre-final-year students to showcase their technical projects and innovations. The event aimed to nurture an ecosystem of applied knowledge, peer learning, and interdisciplinary collaboration.



A wide range of projects in domains like IoT, Artificial Intelligence, renewable energy, and robotics were displayed. Faculty members, industry guests, and fellow students evaluated the projects. The highlight of the event was a live demonstration session where student innovators explained their concepts and working models. By encouraging practical problem-solving and product-oriented thinking, TECH EXPO 2025 aligned closely with national innovation missions. Awards and certificates were given to the most promising projects, fostering a spirit of competition and research.



A Educational Visit to Statue of Unity (SOU)

An educational trip to the Statue of Unity (SOU) in Kevadia, Gujarat, was organized for RSE students from 23rd January 2025 to 25th January 2025. The visit was coordinated by Mr. Aditya Yadav and Dr. Radhika Mistry.

The primary objective of this trip was to provide students with a learning experience that combines history, engineering marvels, and national heritage. Students explored various attractions such as the Statue Viewing Gallery, the Valley of Flowers, the Sardar Sarovar Dam, and the Exhibition Hall that showcases the life and contributions of Sardar Vallabhbhai Patel.



The visit proved to be highly informative and enriching, giving students insight into India's rich cultural legacy and large-scale infrastructure development. The coordinators ensured a smooth and safe journey, making the trip both educational and memorable for all participants



Introduction to Bioinformatics

On 21st February 2025, Rai School of Engineering and the Centre for Research and Innovations at Rai University, Ahmedabad hosted an insightful seminar on 'Introduction to Bioinformatics'. The session was led by our esteemed resource person, Dr. Deepak Krishna Vyas, Assistant Director – Centre for Research and Innovations. A day of learning, innovation, and exploration in the world of bioinformatics!





The Internal Quality Assurance Cell (IQAC), in association with Rai School of Management Studies, Rai University, Ahmedabad, organized an engaging workshop on Leadership Styles & Adaptability on 21st Feb & 22nd Feb 2025 at Rai University, Ahmedabad in which **Rai School Engineering Faculties** participated. Our esteemed speaker, Prof. (Dr.) Deepesh Kumar Saxena, Hon'ble Registrar, Rai University, inspired participants with his profound insights on leadership. The seminar also featured a variety of interactive activities designed to enhance learning and adaptability in leadership.

A Seminar on Cyber Awareness



A seminar on Cyber Awareness was successfully conducted on 14th February 2025 at 11:00 AM in the Seminar Hall of Rai University, Ahmedabad. The event aimed to educate students and faculty about the growing importance of cyber security in today's digital age. The keynote speaker for the session was IPS Ghanshyam Gautam, an esteemed officer from the 2022 Gujarat Cadre (IPS). He delivered an insightful session on topics including online frauds, digital privacy, safe internet practices, cyber laws, and the role of law enforcement in tackling cybercrime.



11th Convocation

On February 1st, 2025, Rai University proudly hosted its 11th Convocation Ceremony for the Class of 2024, bringing together a distinguished group of guests to celebrate the academic accomplishments of its graduates. The event was graced by several prominent figures, including Dr. Nilesh M. Desai, Hon’ble Director of the Space Applications Centre (SAC), Indian Space Research Organization (ISRO), who served as the Chief Guest. Shri Bhupendrasinh Chudasama Ji, Hon’ble Ex-Cabinet Minister, Government of Gujarat, and Shri Kiritsinh Dabhi Ji, Hon’ble MLA of Dholka, were also present as Guests of Honor, with Prof. (Dr.) M.N. Patel, Hon’ble Ex-Vice Chancellor of Gujarat University, attending as the Special Guest.

The ceremonial proceedings began with a Guard of Honor extended to Dr. Nilesh M. Desai, the esteemed Chief Guest. This formal salute was accompanied by the presence of Prof. Dr. Anil Tomar, Hon’ble Provost of Rai University, Mr. Abhishek Singh, Respected Vice President – Strategy & Growth, Rai University, Prof. Dr. Deepesh Kumar Saxena, Registrar, Rai University, and the respective Deans at Rai University, all of whom contributed to the success of the occasion.



Cultural Events

New Year Celebration

Rai University Celebrates New Year 2025, a year filled with new opportunities, and a chance to turn dreams into Reality. **"New year, new mindset, new results.** "The turning of the calendar isn't just a change in dates—it's a powerful symbol of renewal. A new year invites us to pause, reflect, and realign with what matters most. It's a chance to let go of what no longer serves us and embrace the possibilities ahead with open hearts and clear intentions.

As the final seconds of the past year slipped away, and the clock struck midnight, the world paused—for just a breath—to exhale what has been, and inhale what can be.

The New Year is not just a date on the calendar. It is the quiet spark of hope that flickers in every soul. It is a blank page waiting for your story, your truth, your triumphs to be written in bold ink and fearless prose.

Let us not greet this year with the weight of what we failed to finish, but with the wisdom we gained from trying. Let us not count the things that went wrong, but the strength we found to rise, again and again.



Republic Day

Rai University Celebrates 26th January Republic Day Republic Day is a national holiday in India commemorating the adoption of the Constitution of the Republic of India and the country's transition to a republic which came into effect on 26 January 1950.

The constitution replaced the Government of India Act 1935 the governing document of India, thus turning the nation from a dominion into a republic, following its independence from the British Raj in 1947. The constitution was adopted by the Constituent Assembly of India on 26 November 1949 and came into effect on 26 January 1950. The date was chosen because the Indian National Congress had proclaimed Purna Swaraj (complete independence) on that date in



1930. Republic Day is commonly associated with parades, political speeches, cultural events and ceremonies, in addition to various other public and private events celebrating the history, government, and the traditions of India.





Days Celebrations in Campus

College campuses often celebrate a variety of "Days" during fests or cultural weeks these are themed days where students dress up or participate in activities around a specific concept. Here's a fun and popular list of different Days celebrated by students. **Commonly Celebrated Campus Days in Rai University** Traditional Day , Twin Day , Mismatch Day , Retro Day / 90s Day, Formal Day , Fandom Day , Colour Day, Bollywood/Hollywood Day Sports/Jersey Day , Pajama Day , Back to School Day , Occupation Day ,No Bag Day , Crazy Hair Day etc.



International Women's Day (IWD)

International Women's Day (IWD) is celebrated globally on **March 8th** each year. It is a day to recognize and honour the **achievements of women** across all spheres—social, economic, cultural, and political—while also advocating for **gender equality**.



Holi Celebration

Holi, the vibrant **festival of colours**, has inspired a rich variety of literature across languages, genres, and eras. It is not only a cultural and religious celebration in Hindu tradition but also a powerful symbol in poetry, prose, and drama, reflecting themes of joy, love, renewal, and even rebellion.

Holi is a sacred ancient tradition of Hindus, a holiday in many states of India with regional holidays in other countries. It is a cultural celebration that gives Hindus and non-Hindus alike an opportunity to have fun and play with other people by throwing coloured water and powder at each other. It is also observed broadly on the Indian subcontinent. Holi is celebrated at the end of winter, on the last full moon day of the Hindu luni-solar calendar month, marking the spring, making the date vary with the lunar cycle. The date falls typically in March, but sometimes late February of the Gregorian calendar.

In northern parts of India, children spray coloured powder solutions (gulal) at each other, laugh, and celebrate, while adults smear dry coloured powder (abir) on each other's faces. Visitors to homes are first teased with colors, then served with Holi delicacies, dessertss and drinks. After playing with colors, and cleaning up, people bathe, put on clean clothes, and visit friends and family.

Like Holika Dahan, Kama Dahanam is celebrated in some parts of India. The festival of colors in these parts is called Rangapanchami, and occurs on the fifth day after Poornima (full moon).



Achievements
Faculty Achievements

Prof. (Dr.) Sailesh Iyer



Prof. (Dr.) Sailesh Iyer, Honorable Dean, Rai School of Engineering, Rai University, Ahmedabad Shines as Keynote Speaker at AICI 2025 & BDCTA 2025 as he delivered a captivating keynote speech on "Big Data Visualization - Challenge and Tools" at the 2025 International Conference on Artificial Intelligence and Computational Intelligence (AICI 2025) and the 2025 International Conference on Big Data, Communication Technology and Computer Applications (BDCTA 2025) held in Kuala Lumpur, Malaysia from February 14-16, 2025. His expertise and presentation skills were widely appreciated by the attendees.

It is with great pride and distinction that we recognize Prof. (Dr.) Sailesh Iyer for his exemplary contribution to innovation and research in the field of science and technology. Under the Patents Act, 1978 of the Republic of South Africa, Dr. Iyer, along with a team of distinguished co-researchers, has been officially granted a patent for an invention of significant academic and practical value. The patent, registered under the number 2024/05615, acknowledges the originality and impact of their work, which has been thoroughly examined and accepted by the South African Patent Office. The certificate bears testimony to their efforts and is dated February 26, 2025, with official sealing done in Pretoria.





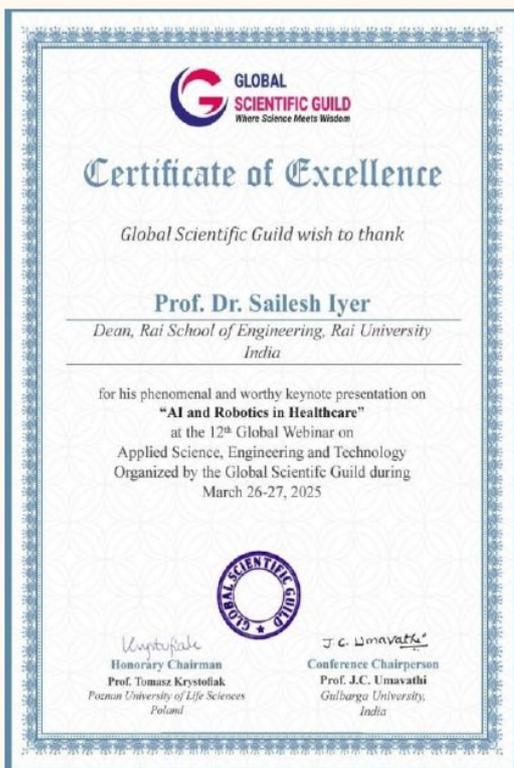
He has certificate of recognition for contributing as a resource person on the topic “Fundamentals of Effective Research Publishing by Internal Quality Assurance Cell of KR Mangalam University, Haryana from 3rd to 10th February 2025.

He has gave an insightful session on “Smart Devices in Healthcare” for which he was appreciated for his valuable contribution as a resource person in the Three - Day Online Faculty Development Programmed (FDP) on “AI - Driven Cyber Security in Smart Devices” organized by the Department of Information Technology, Adithya Institute of Technology, Coimbatore from 20th February 2025 to 22nd February 2025.



He has appreciated for serving as a reviewer for 1st International Conference on Interdisciplinary Horizons: Integrating AI in Science, Management and Technology (ICON-AI-SMT’25) organized by GSFC University, Vadodara, and Gujarat during 20-21 February 2025.





He has appreciated for his phenomenal and worthy keynote presentation on “AI and Robotics in Healthcare” at 12th Global Webinar on Applied Science, Engineering and Technology organized by Global Science Guild during March 26-27, 2025.

He had gratified for presenting a technical talk as a distinguished expert in GAD Workshop series on “Making Scholars Future ready” on 25th January 2025.





He has been appreciated for the support and cooperation that he gave as a session chair/judge for session titled TS 09: Smart Computing in the 2nd World Congress on Smart Computing (WCSC 2025) held during February 22-23, 2025.

He has recognized for his valuable presence and contribution as a conference chair at International Conference on Innovations in Material Science, Technology, Engineering and Management for Sustainable Development (IMSTEM) - 2025” jointly organized by Department of Science, St. Joseph’s College of Engineering, OMR, Chennai, Tamil Nadu, India & RSP Research Hub, Coimbatore, and Tamilnadu on 30th and 31st March 2025.



He was appreciated for his voluntary and valuable contribution as a reviewer of papers for ICASCA - 2025 organized by GLS University, India from February 15th - 16th, 2025.





WIRSA LINCOLN
No 12, 14, 16, 18, 20, 22, 24, 26, Jalan Perbandaran,
17200 Simpang Ampat, Seberang Perai,
17200 Simpang Ampat, Pulau Pinang,
Malaysia.
Tel: +603-7000 3478
Fax: +603-7000 3479
Email: info@wirsa.edu.my
www.wirsa.edu.my

Date: January 20, 2025

Prof. (Dr.) Sailesh Suryanarayan Iyer

Rai University, Ahmedabad, Gujarat, India

Subject: Appointment as Co-Supervisor for the Lincoln Global Postdoc and Research Associate Programme

Dear Prof. (Dr.) Sailesh Suryanarayan Iyer:

We are pleased to inform you of your appointment as a Co-Supervisor in the Lincoln Global Postdoc and Research Associate Programme (LGPR) at Lincoln University College, Malaysia. This appointment is effective for a period of one year, commencing on 20th January 2025 and concluding on 19th January 2026. As a Co-Supervisor, you will have the esteemed responsibility of guiding and mentoring postdoctoral and research associate candidates from diverse nationalities. Your role will involve supervising their academic work, providing constructive feedback, and supporting their research initiatives to ensure the successful completion of their academic and professional objectives.

Additionally, as a Co-Supervisor, you will be entitled to have your name listed as a Co-Corresponding Author on research outputs produced under your supervision. This recognises your significant contribution to the academic and research efforts of the candidates you mentor. We believe that your expertise and commitment will significantly contribute to the academic excellence and research culture of the programme. Your involvement will also serve as an inspiration to our candidates, enabling them to achieve their potential and contribute meaningfully to their fields of study.

We look forward to your contributions to the programme and trust that you will find this role both rewarding and fulfilling. Should you require any assistance or additional information, please do not hesitate to contact us. Once again, congratulations on your appointment, and we wish you great success in this role.

On behalf of the LGPR Steering Committee

Regards

Prof Dr. Sai Kiran Oruganti

Faculty of Built Science & Engineering Lincoln University College, Malaysia.
Email ID: saisharma@lincoln.edu.my

LGPR: Sustainable Global Societies Initiative



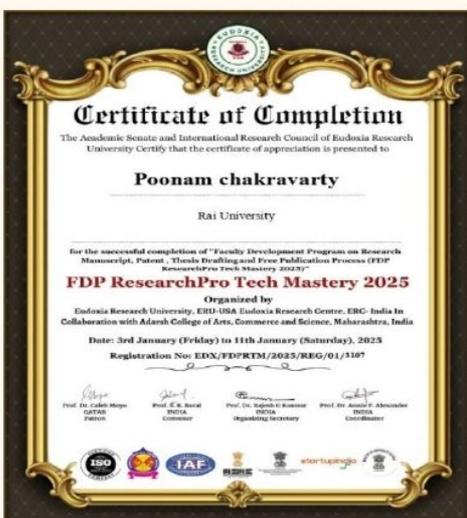
LGPR: Sustainable Global Societies Initiative

He was certified and honored for volunteering as a Guest Speaker at Conference 4.1 on “Fostering an Entrepreneurial mindset in Education” by SK Associates and Groups, Hyderabad, Telangana.



Ms. Poonam Chakravarty

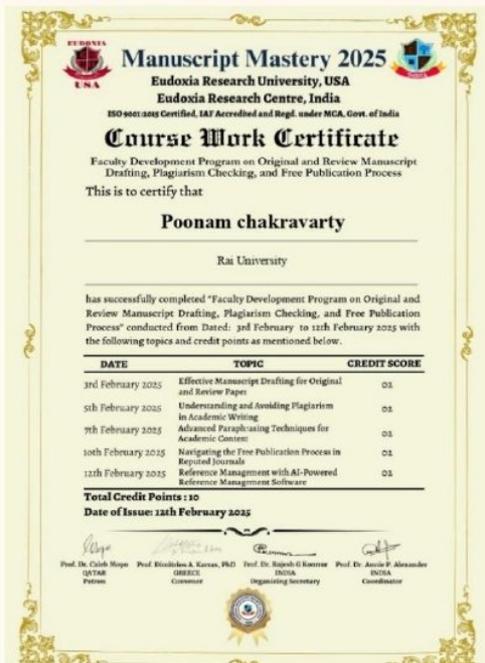
Ms. Poonam Chakravarty, Assistant Professor and Head Computer Science & Engineering and Information Technology Department, Rai School of Engineering, Rai University, Ahmedabad, successfully participated in descriptive data analysis using R programming webinar on 15th March at Lokmanya Institute of Management and Computer Applications - MCA (581).



Has successful completion of Faculty development program on research manuscript, patent, thesis drafting and free publication process (FDP research Pro Tech Mastery 2025) organized by Eudoxia Research University, ERU - USA Eudoxia Research Centre, ERC - India in collaboration with Adarsh College of Arts and Commerce and Science, Maharashtra, India from 3rd January to 11th January 2025.

Has successful completion of Faculty development program on Application of AI and SPSS in Quantitative Research Design organized by Eudoxia Research University, New Castle, USA and Eudoxia Research Centre, India from 16th January to 24th January 2025.





Has successfully completed “Faculty Development Program on Original and Review Manuscript Drafting, Plagiarism Checking and Free Publication Process” conducted from 3rd February to 12th February 2025

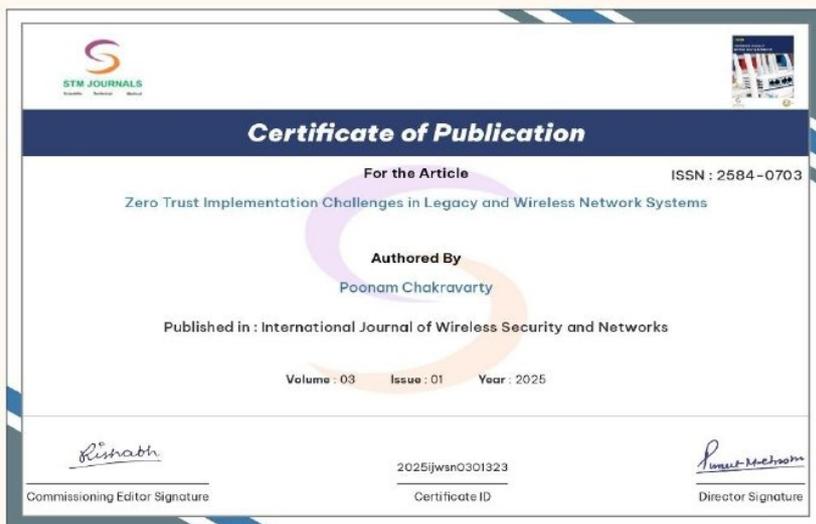
Has successful competition of “Manuscript Mastery 2025: FDP on Original and Review Manuscript Drafting, Plagiarism Checking and Free Publication Process” organized by Eudoxia Research University, ERU - USA Eudoxia Research Centre, ERC - India & European International Research Council of Eudoxia dated 3rd February 2025 to 12th February 2025.





Has successfully participated in the International Conference on Emerging trends and advances in Management, Law, Humanities and Social Sciences (Global Nexus 2025) organized by Eudoxia Research University, USA and Eudoxia Research Centre, Bangalore, Mumbai, Guwahati, India in collaboration with Indian Institute of Innovation and Science (IITSc) Nagpur from 21st February 2025 to 22nd February 2025.

Has successfully completed International Faculty development program on data collection, coding, sampling and data interpretation in qualitative research design 2025 organized by Eudoxia Research university, ERU - USA, Eudoxia Research Centre, ERC - India & European International Research council of Eudoxia from 1st March 2025 to 12th March 2025.

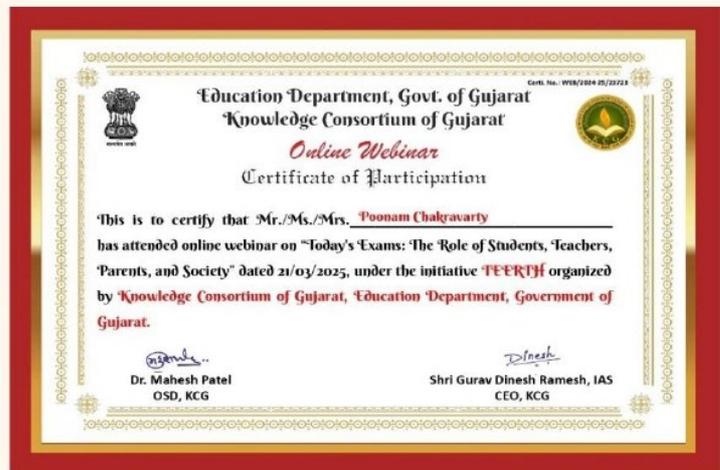


Has received certificate of publication for article “Zero Trust Implementation Challenges in Legacy and Wireless Network Systems” in International Journal of Wireless Security and Networks, Volume 3, Issue 01, Year 2025.



She was proudly awarded as a key note speaker in Sustainable AI 2025: International Conference on AI for a Greener Planet on topic “Traffic Management and Pollution Control with AI in Smart Cities” from 21st February 2025 to 23rd February 2025.

Has attended online webinar on “Today’s Exams: the role of students, teachers, parents and society dated 21st march 2025, organized by Knowledge consortium of Gujarat, Education Department, Government of Gujarat.



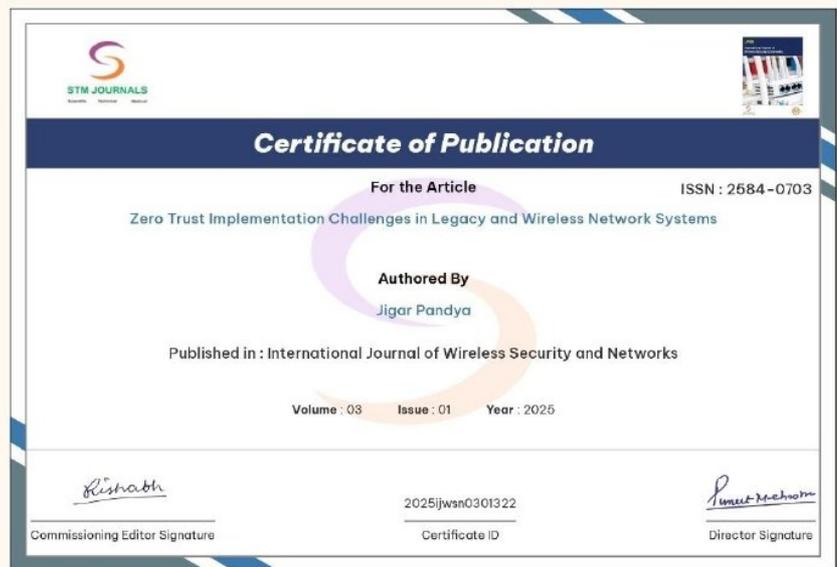


Mr. Jigar Pandya



Mr. Jigar Pandya, Assistant Professor and Head of Computer Science and Applications Department, Rai School of Engineering, Rai University, Ahmedabad, successfully participated in the descriptive data analysis using R programming Webinar on 15th March 2025 managed by Lokmanya Institute of Management and Computer Applications - MCA (581).

Has received certificate of publication for article “Zero Trust Implementation Challenges in Legacy and Wireless Network Systems” in International Journal of Wireless Security and Networks, Volume 3, Issue 01, Year 2025.





He was proudly awarded as a keynote speaker in Sustainable AI 2025: International Conference on AI for a Greener Planet on topic “AI in Managing Renewable Energy Grid” from 21st February 2025 to 23rd February 2025.

Has attended online webinar on “Today’s Exams: the role of students, teachers, parents and society dated 21st march 2025, organized by Knowledge consortium of Gujarat, Education Department, Government of Gujarat.



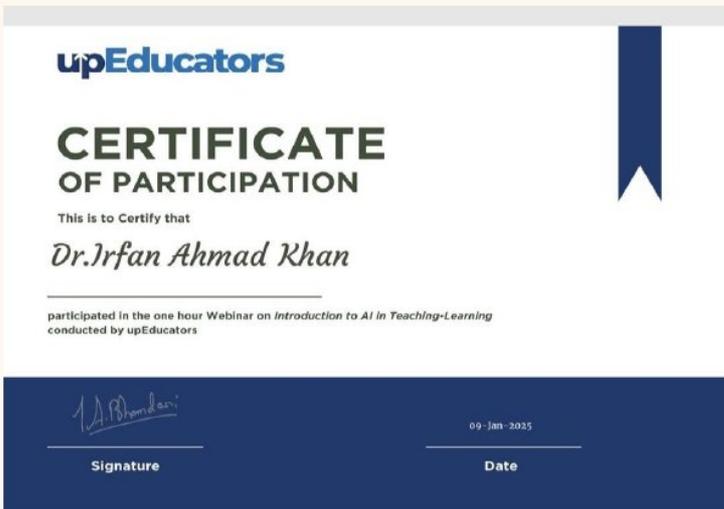


Mr. Meet Bakotia



Mr. Meet Bakotia, Assistant Professor in Mechanical Engineering at Rai University, Ahmedabad successfully attended Capacity-Building Program on Innovation & Entrepreneurship, organized at EDII in collaboration with i-Hub Gujarat from 17th to 22nd March 2025 at EDII Campus, Ahmedabad from 09:30 AM onwards. This program provided a valuable insights into innovation management, incubation strategies, and the startup ecosystem, benefiting student innovators, entrepreneurs, and institutional incubation centers.

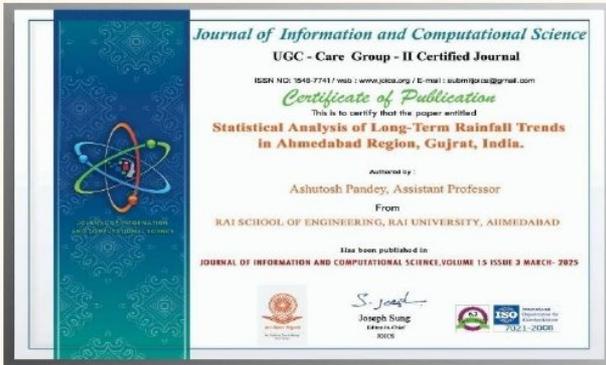
Dr. Irfan Ahmad Khan



Dr. Irfan Ahmad Khan, Assistant Professor, Rai School of Engineering, Rai University, and Ahmedabad has participated in webinar on “Introduction to AI in Teaching - Learning conducted by upEducators.



Mr. Ashutosh Pandey



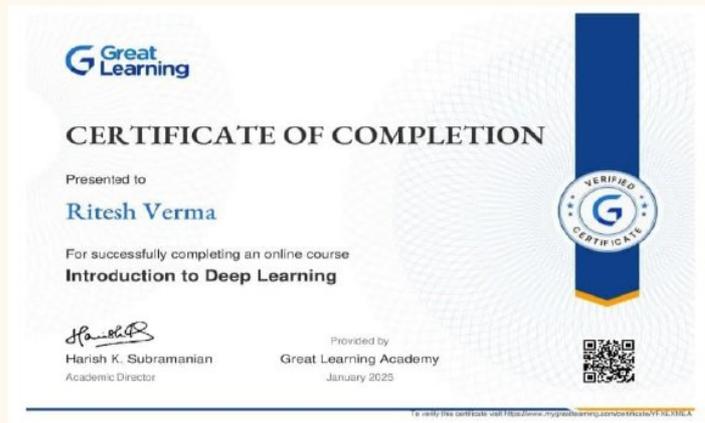
Mr. Ashutosh Pandey, Assistant Professor, Rai School of Engineering, Rai University, Ahmedabad has published a paper titled “Statistical Analysis of Long Term Rainfall Trends in Ahmedabad Region, in Journal of information and Computational Science ISSN No: 1548 - 7741, Volume 15, Issue 3 in March 2025.

Mr. Ritesh Verma



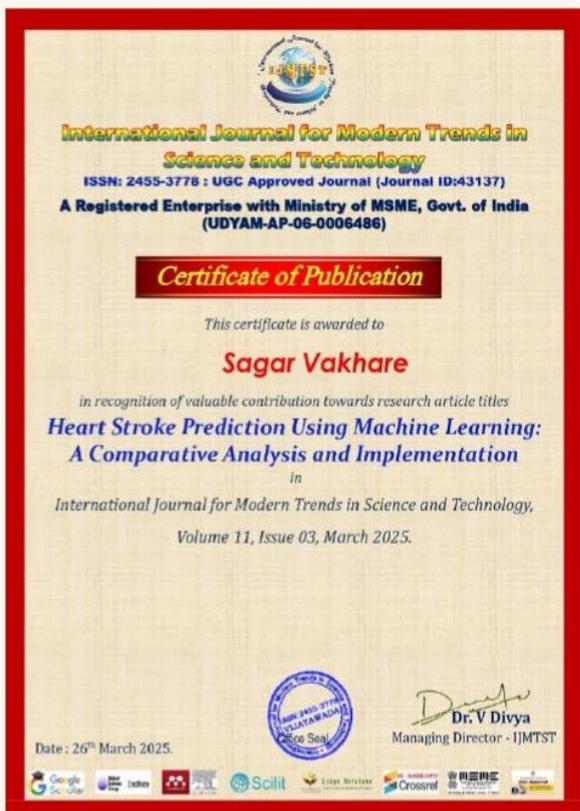
Mr. Ritesh Verma, Assistant Professor, Rai School of Engineering has successfully completed and is certified in Google Analytics Certification.

Has successfully completed an online course on introduction to deep learning.



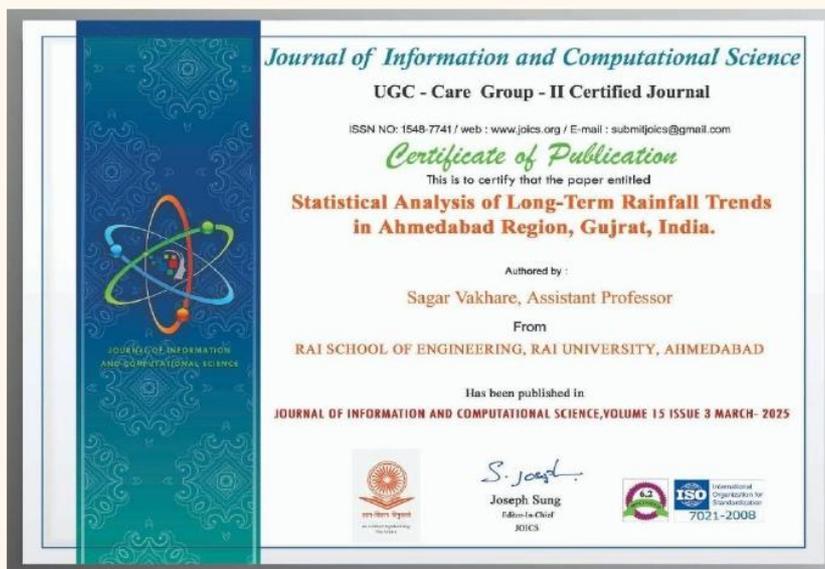


Mr. Sagar Vakhare



Mr. Sagar Vakhare, Assistant Professor, Rai School of Engineering, Rai University, Ahmedabad has published paper on “Heart Stroke Prediction using machine learning: A comparative Analysis and Implementation” in International Journal for Modern Trends in Science and technology ISSN : 2455-3778, Volume 11, Issue 03rd, March 2025.

Has published a paper titled “Statistical Analysis of Long Term Rainfall Trends in Ahmedabad region, Gujarat, India in journal of information and computational science, volume 15, issue 3rd, March 2025.





Mr. Saket Swarndeeep



Mr. Saket Swarndeeep, Assistant Professor, Rai School of Engineering, Rai University, has successfully participated in descriptive data analysis using R programming Webinar on 15th March, managed by Lokmanya Institute of Management and Computer Applications - MCA (581)

Has successfully participated and completed faculty development programmer on Enhancing network performance with AI and Machine Learning - through use case approach at IILM University, Gurugram from 6th January 2025 to 11th February 2025





Ms.Megha Sankhala



Ms. Megha Sankhala, Assistant Professor, Rai School of Engineering, Rai University, has successfully participated and completed faculty development programmer on Enhancing network performance with AI and Machine Learning - through use case approach at IILM University, Gurugram from 6th January 2025 to 11th February 2025.



Students Achievements

Result of the Event Tech Expo 2025

Combine result of the B.Tech. SEM IV, BCA SEM VI and BSc- IT SEM VI

Sr. No.	Result	Student Name	Programme and Semester	Project
1.	Winner	Sheetal Bavaliya and Ankita Patel	BSc-IT SEM VI	An Ai Power Chatbot For Crop And Disease Prediction
2.	1st Runner up	Kavya Panicker & Abhishek Vishwakarma	B.Tech. SEM IV	Face recognition attendance system
3.	2nd Runner up	Mrunal Gaikwad & Shekh Asif	B.Tech. SEM IV	Bus Scheduling and Route Management System for Delhi Transport Corporation
4.	3rd Runner up	Parmar Abhishrut and Team	B.Tech. SEM IV	Mess Management System
5.	4th Runner up	Mevada Kishan Bharat Bhai & Jain Harshita	BSc-IT VI	Multiple diseases prediction web app

Result of B.Tech. SEM II

Sr. No.	Result	Student Name	Project
1.	Winner	Ayushman Soni and Team	OSMIUM
2.	1st Runner up	Isha Patel	Borrowly : Rent & Borrow - Clothes , Footwears , Accessories
3.	2nd Runner up	Tejwani Ashish Jitendrakumar	"Worknix"- Always in Sync with You.
4.	3rd Runner up	Dhruv Sungari	Eventura - event management website
5.	4th Runner up	Lacki Lohar	DIGI-LIBRARY (E-Library)



Bhatt Jaymeenbhai Shaileshbhai (Enrollment No: 24BSIT010), a student of B.Sc IT Rai School of Engineering, Rai University, successfully completed the IBM & Edunet Foundation internship on 26th February 2025. The program offered practical exposure to emerging technologies and industry practices through guided modules, real-time projects, and expert-led sessions. This internship enhanced his technical and professional skills, contributing to his overall academic and career development. His active participation reflects a strong commitment to learning and adapting to modern IT trends and industry expectations.

Congratulations to **Joshi Priyanshiii**, a talented student of Diploma IT (2nd Semester) at Rai School of Engineering, Rai University, for receiving an award for choreography at the Annual Function of Saraswati School, Ahmedabad on 18th March 2025. With two years of dedication in the choreography stream and participation in numerous events, Priyanshiii continues to inspire with creativity and passion. This achievement reflects the unwavering support of parents, elders, and the team. Wishing continued success and many more accolades in the journey ahead!



We are proud to announce that **Abhay Bhawsar**, a student of Rai School of Engineering, Rai University, Rai University, has received a **Certificate of Appreciation** for his participation in **NJ Hack v4.0**, held from 7th to 9th March and jointly organized by KLU and Innovation Garage. His innovative thinking, technical contribution, and enthusiastic involvement during the event were highly valued by the organizers. Abhay's achievement reflects the growing talent within our university and serves as motivation for fellow students to participate in such national-level hackathons that promote practical learning and creative problem-solving.



We are delighted to share that Kumar Anupam, a student of Rai School of Engineering, Rai University, has been awarded a Certificate of Appreciation for his active participation in NJ Hack v4.0, held from 7th to 9th March and co-organized by KLU and Innovation Garage. His innovative approach, technical skills, and enthusiastic involvement were highly appreciated by the organizers. Such achievements not only highlight the talent and dedication of our students but also inspire their peers to actively engage in national-level competitions and practical learning experiences.

Articles

Faculty Articles



Mr. Meet Bakotia
Assistant Professor
Rai School of Engineering
Rai University

Sabarmati Multimodal Transport Hub: A Game-Changer for Gujarat's Transportation Infrastructure

The Sabarmati Multimodal Transport Hub is a revolutionary project that promises to transform the transportation landscape of Gujarat. Located in Ahmedabad, this mega-project is designed to integrate various modes of transportation, including buses, trains, metro trains, and bullet trains, into a single, seamless network.

State-of-the-Art Facilities

The Sabarmati Multimodal Transport Hub boasts an array of state-of-the-art facilities, including:

- **Integrated Bus Station:** A modern bus station with amenities such as air-conditioned waiting areas, food courts, and restrooms
- **Railway Station:** A newly renovated railway station with upgraded facilities, including escalators, lifts, and waiting areas INCLUDING BULLET TRAIN STATION
- **Metro Train Station:** A metro train station with easy access to various parts of the city
- **Bullet Train Station:** A dedicated station for the Ahmedabad-Mumbai Bullet Train, providing high-speed connectivity to Mumbai and beyond
- **Parking Facilities:** Ample parking space for private vehicles, buses, and taxis
- **Commercial Spaces:** Retail shops, restaurants, and other commercial establishments to cater to the needs of commuters

Huge Infrastructure

The Sabarmati Multimodal Transport Hub is spread over a vast area, with a massive infrastructure that includes:

- **Multiple Platforms:** Multiple platforms for buses, trains, metro trains, and bullet trains, ensuring easy transfers and convenient travel
- **Foot Over Bridges:** Well-designed foot over bridges and subways to facilitate safe and easy movement of commuters



- **Landscaping and Green Spaces:** Beautifully landscaped gardens and green spaces to create a pleasant environment for commuters
- **Advanced Technology:** State-of-the-art technology, including automated fare collection systems and real-time information displays, to enhance the commuter experience

Benefits and Impact

The Sabarmati Multimodal Transport Hub is expected to have a significant impact on the transportation landscape of Gujarat, offering numerous benefits, including:

- **Reduced Congestion:** By integrating various modes of transportation, the hub is expected to reduce congestion on roads and improve traffic flow
- **Increased Efficiency:** The hub will provide a seamless travel experience, reducing travel time and increasing efficiency
- **Environmental Benefits:** By promoting public transportation, the hub is expected to reduce carbon emissions and contribute to a cleaner environment
- **Economic Growth:** The hub will boost economic growth by improving connectivity and facilitating the movement of people and goods

Bullet Train Connectivity

The Ahmedabad-Mumbai Bullet Train project is a significant component of the Sabarmati Multimodal Transport Hub. This high-speed rail line will reduce travel time between Ahmedabad and Mumbai to just 2.5 hours, making it a game-changer for business travellers and tourists alike. The bullet train will also provide a boost to the local economy, creating new opportunities for growth and development.



Dr. Irfan Ahmad Khan
Assistant Professor
Rai School of Engineering,
Rai University

Modern Education System and the Role of AI Tools in Higher Education

In recent years, higher education in India has been going through a major shift. Classrooms are no longer limited to four walls, and learning isn't confined to textbooks. With the rise of digital platforms and the growing presence of artificial intelligence (AI), both teaching and learning have become more dynamic and interactive. The National Education Policy (NEP) 2020 has played a key role in this transformation, encouraging more flexible learning paths, greater use of technology, and a stronger focus on the needs and interests of students.

Role of AI Tools in Higher Education:

AI tools are increasingly being used in classrooms, online platforms, and administration. Some common applications include:

- **Personalized Learning:** AI-powered platforms adapt to individual student needs, helping them learn at their own pace.
- **Automated Assessment:** AI tools help in quick grading, plagiarism detection, and evaluation, saving time for educators.
- **Virtual Assistants:** AI chatbots and voice assistants support students with queries, scheduling, and learning resources.
- **Smart Content Creation:** AI can generate summaries, quiz questions, and visual aids to enhance understanding.
- **Predictive Analytics:** AI helps institutions track student performance and predict outcomes, allowing timely interventions.

Advantages:

- **Improved Accessibility:** AI tools make learning accessible to students in remote areas.
- **Efficiency:** Automation reduces the workload of teachers and administrators.
- **Customized Learning:** Students get content that suits their level of understanding and interest.
- **24/7 Support:** AI tools provide round-the-clock learning assistance.

Disadvantages:

- **Lack of Human Touch:** Over dependence on AI can reduce teacher and student interaction.
- **Digital Divide:** Not all students have equal access to technology or internet connectivity.
- **Data Privacy Concerns:** Use of AI involves data collection, raising privacy and security issues.
- **Job Displacement Fear:** Automation in academic roles may lead to concerns among educators.

Conclusion:

There's no doubt that AI offers exciting opportunities to improve the quality and accessibility of learning in India. From personalized learning experiences to efficient administrative support, AI can make education more comprehensive and responsive to individual needs. However, as we welcome these advancements, it's equally important to remember that education is not just about information delivery



also about connection, empathy, and critical thinking. These are qualities that machines can't replicate. AI should serve as a helpful assistant in the teaching and learning process, not a replacement for the guidance, mentorship, and human insight that educators provide. By adopting a balanced and thoughtful approach, where technology enhances, not overshadows, the human element. We can ensure that AI truly strengthens our education system for the betterment of both students and academicians.

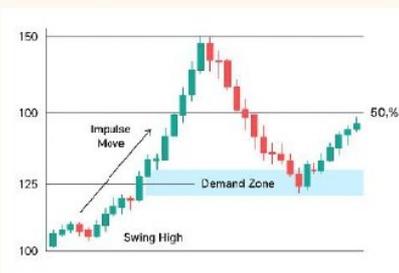


Mr. Nayan Jadav

**Academic Coordinator,
Rai School of Engineering,
Rai University**

Understanding the 50% Fibonacci Retracement and Demand-Supply Zones in Market Behaviour

In financial markets, many tools and theories have been developed to better understand price movements. Among these, **Fibonacci retracement levels** and **demand and supply zones** are two widely studied concepts. Although often used in trading, they also serve educational purposes in helping students and analysts understand how markets behave and why prices tend to reverse at certain levels. The **Fibonacci retracement** is based on the Fibonacci sequence, a mathematical series in which each number is the sum of the two preceding ones. When these numbers are converted into ratios, certain levels—like 38.2%, 50%, and 61.8%—are believed to reflect natural proportions found in various systems, including biology, architecture, and finance.



Among these, the **50% retracement level** is particularly interesting. While not derived directly from the Fibonacci sequence, it is commonly used due to historical observations in price behaviour. The idea is that, after a significant movement in price—whether upward or downward—markets often "pull back" or retrace to about half of that move before continuing in the original direction. This concept reflects a general tendency for balance or correction in complex systems. Separately, **demand and supply zones** refer to areas on a price chart where buying or selling interest has historically been strong. A **demand zone** is a price range where demand for an asset has previously exceeded supply, often resulting in upward price movement. Conversely, a **supply zone** is an area where supply has outweighed demand, typically leading to a downward price reaction.

These zones are not based on exact prices but rather on **areas or ranges** that are identified through visual analysis of historical price patterns. For example, if a price suddenly rises from a certain level, that area may be interpreted as a demand zone. If price sharply falls from a region, it might be labelled as a supply zone. When studied together, the **50% retracement level** and **demand/supply zones** offer insight into how financial markets tend to behave. A common observation is that when prices pull back to the 50% retracement area, they often do so within or near a demand or supply zone. This convergence can reflect areas of **price equilibrium**, where the forces of buying and selling momentarily balance before one side gains control again.

In an educational context, analyzing price charts using these concepts helps students:

- Understand **market psychology**—why participants buy or sell at certain levels.
- Learn how **price memory** works—how past levels of importance influence future behavior.
- Explore the **mathematical and behavioral intersections** of finance, where natural ratios like Fibonacci levels may appear in market patterns.

Student's Articles



Krunal Viradiya
MCA(Sem-2),
Rai School of Engineering,
Rai University, Ahmedabad

Quantum Cryptography: Securing the Future in a Post Quantum World

Traditional encryption techniques are becoming more and more difficult to use in a digital world where cyberthreats are developing as quickly as technology. Quantum cryptography, a cutting-edge strategy that uses the laws of quantum mechanics to protect data, is one of the most inventive solutions to this threat. Quantum-safe cryptography systems are becoming more and more necessary as quantum computers get closer to the real world.

Quantum cryptography: what is it?

The study of using quantum mechanical properties to carry out cryptographic operations is known as quantum cryptography. Quantum cryptography is founded on the laws of physics, as opposed to classical cryptography, which depends on mathematical complexity. Quantum Key Distribution (QKD), which allows two parties to share a secret key with complete security, is the most widely used and useful application.

Why Traditional Cryptography Is in Danger

The computational difficulty of specific mathematical problems—such as factoring large primes or solving discrete logarithms—is the foundation of the majority of modern encryption systems, such as RSA and ECC. Once large-scale quantum computing becomes feasible, current encryption will be useless because quantum computers, using algorithms like Shor's Algorithm, can solve these problems exponentially faster than classical computers.

Essential Ideas in Quantum Cryptography

1. Qubits, or quantum bits

Qubits, in contrast to classical bits (0 or 1), are capable of existing in a superposition, which allows them to be both 0 and 1 simultaneously. This makes it possible for quantum systems to process a huge number of possibilities at once.

2. The Uncertainty Principle of Heisenberg

According to this principle, a quantum system will always change when it is measured. The fact that eavesdropping attempts disrupt the system and notify the communicating parties is a crucial component that makes quantum communication intrinsically secure.

3. The No-Cloning Theorem



Duplication of encryption keys during transmission is avoided by this theorem, which guarantees that unknown quantum states cannot be replicated.

The distribution of quantum keys (QKD)

By distributing a key between two parties in a way that makes any eavesdropping detectable, QKD enables secure communication. Charles Bennett and Gilles Brassard created BB84, the most well-known QKD protocol, in 1984.

How BB84 Operates:

Alice, the sender, encodes bits into photon polarisation and transmits them to Bob, the recipient.

Bob chooses a basis at random to measure every photon.

Bob and Alice use a public channel to compare their measurement bases.

Some bits are thrown away, while others measured using the same basis are retained.

The resultant bits make up the shared secret key if no eavesdropping is found.

Quantum cryptography's benefits

Unbreakable Security: Predicated on the laws of physics rather than presumptions about computational difficulty.

Eavesdropping Detection: Any attempt to eavesdrop on a conversation results in errors that can be detected.

Long-term Security: Guards against potential quantum computer threats.

Obstacles and Restrictions

- **Infrastructure:** Specialised hardware, such as photon detectors and quantum repeaters, are needed for quantum communication.
- **Limitations on Distance:** Without repeaters, quantum signals deteriorate over extended distances.
- **Cost:** More expensive to develop and maintain than traditional encryption.
- **Integration:** Without significant redesigns, it is challenging to integrate with current systems.

Applications in the Real World

- The distribution of quantum keys between ground stations more than 1,000 kilometres apart was accomplished by China's Quantum Satellite (Micius).
- **European Quantum Networks:** Initiatives such as the EU's Quantum Internet Alliance are constructing safe networks for banking and military applications.
- Microsoft, Google, and IBM are all making significant investments in post quantum security research and quantum computing.

Post-Quantum Cryptography (PQC) is the cryptography of the future.

Even though quantum cryptography provides the highest level of security, it is not always feasible in the modern world. As a result, Post-Quantum Cryptography (PQC), a related field, is also developing. PQC algorithms are safe from quantum attacks while still being able to function



on traditional computers. Lattice-based, code-based, and multivariate polynomial-based cryptographic algorithms are a few examples.

In conclusion

A paradigm shift in secure communication is represented by quantum cryptography. Traditional encryption techniques will become outdated as quantum computers gain power. Although there are financial and technological obstacles to real-world implementation, research and development is moving quickly forward. The peculiar and potent laws of quantum physics might hold the key to secure communication in the future.

Adopting quantum cryptography is essential to our quest for unbreakable digital security; it is not merely a technical advancement.



Jaymeen Bhatt
BSc-IT(Sem-2),
Rai School of Engineering,
Rai University, Ahmedabad

Smart Homes, Dumb Risks: The Security Flaws We Ignore Every Day

In the age of automation and artificial intelligence, smart homes are no longer a futuristic dream they're our current reality. From voice-controlled lights and smart TVs to security cameras and automated locks, our homes are getting "smarter" by the day. But here's the hard truth we often ignore: with greater connectivity comes greater vulnerability.

Convenience vs. Security

Smart homes offer unmatched convenience. You can turn on your air conditioner from your college, unlock the door for guests remotely, or check who's ringing the bell via your smartphone. Sounds amazing, right?

But what happens when that same convenience is used against you?

Hackers can exploit unprotected devices to spy on you.

Weak or default passwords on smart cameras can turn them into tools for cyber stalking.

A compromised smart lock could allow someone to enter your home without permission.

Common Security Flaws We Ignore

- **Default Passwords:** Many users forget to change factory-set passwords, which are easily found online.
- **Unpatched Devices:** Regular updates are often ignored, leaving devices open to known exploits.
- **Weak Wi-Fi Security:** A poorly secured home Wi-Fi network is a hacker's doorway to all your smart devices.
- **No Network Segmentation:** Mixing smart devices with personal phones or laptops on the same network increases the risk of attacks spreading.

"But Why Would Anyone Hack My Smart Bulb?"

That's exactly the kind of thinking that invites cyber-attacks. A smart bulb might not hold sensitive data, but if it's connected to the same network as your phone or PC, it can act as a backdoor entry point. Once inside, attackers can steal data, install malware, or simply disrupt your life.

Tips to Secure Your Smart Home

- Change default passwords immediately.
- Enable two-factor authentication (2FA) on apps that control your smart devices.
- Update your devices and apps regularly. Use a separate Wi-Fi network for IoT (Internet of Things) devices.



- Review permissions for each device—don't give more access than necessary.

The Takeaway

Smart homes can be both a blessing and a curse. In our rush to adopt the latest technology, we often forget the basic rule of cybersecurity: Every connected device is a potential target. As cybersecurity students and future professionals, it's our responsibility to educate and protect.

Let's make our homes smarter, yes—but also safer.



Mital Malaviya
BCA (Sem-2),
Rai School of Engineering
Rai University, Ahmedabad

The Impact of Fintech on Banking

Fintech is revolutionizing the banking landscape by integrating digital technology into financial services, enhancing efficiency, accessibility, and customer experience. As traditional banks adapt to this shift, they face both opportunities and challenges, including the need for innovation and the risk of disintermediation. The COVID-19 pandemic has accelerated this transformation, highlighting the importance of digital solutions in maintaining financial stability and inclusion.

Emergence of New Business Models

Fintech companies leverage data analytics, artificial intelligence, and blockchain technology to offer personalized financial services. This evolution is reshaping customer expectations and pushing banks to rethink their strategies and embrace partnerships with fintech firms.

Accelerated Transformation Due to COVID-19

The pandemic expedited the adoption of digital solutions, underscoring their importance in ensuring financial access and resilience. Banks are now focusing on digital-first strategies to meet the rising demand for contactless and seamless banking experiences.

Future Projections for Fintech

The fintech sector is expected to grow significantly, with estimates suggesting it could generate \$1.5 trillion in annual revenue by 2030. This growth will be fueled by ongoing technological advancements and evolving consumer behaviors, as more individuals seek user-friendly, digital-first banking experiences.

Balancing Innovation and Regulation

While fintech brings numerous advantages, the future of banking will depend on finding the right balance between innovation and regulatory compliance. Ensuring consumer protection and maintaining financial stability will be essential as the sector evolves.

Conclusion: A Collaborative Future

Fintech is not just a trend but a fundamental shift in banking operations. Collaboration between traditional banks and fintech firms will be crucial in shaping a more inclusive and efficient financial ecosystem. The future of banking will be led by institutions that embrace technology and evolve with the needs of a diverse, digital-savvy customer base.



Aakash Rathore
Btech, Sem-4
Rai School of Engineering,
Rai University, Ahmedabad

The Trade War is the NEW AGE WAR: Trade war between America and Other Major Trade Countries

The ongoing trade tensions between the United States and other major trade countries, particularly China, have been a significant concern for global economies. The trade war, initiated by the US, aims to address perceived unfair trade practices, intellectual property theft, and forced technology transfers.

Causes of the Trade War: (a) **Unfair Trade Practices:** The US claims that countries like China engage in unfair trade practices, such as intellectual property theft and forced technology transfers. (b) **Tariffs and Retaliation:** The US has imposed tariffs on billions of dollars' worth of Chinese goods, prompting China to retaliate with tariffs on US goods

Impact on Global Economy: (a) **Negative Effects on US Welfare and GDP:** Studies suggest that the trade war has a net negative effect on US welfare and GDP, with losses estimated to be over \$910 billion. (b) **Global Trade Disruptions:** The trade war has disrupted global supply chains, prompting firms to diversify their supply sources and reconfigure production networks. (c) **Increased Global Trade Uncertainty:** The ongoing trade tensions have increased uncertainty, influencing investor confidence and business decisions.

Winners and Losers: (a) **Bystander Countries:** Countries not directly involved in the trade war, such as those in Europe, have seen opportunities to boost their global exports and increase trade with the US and China. (b) **China's Losses:** China's welfare losses are estimated to be between \$26.2 billion and \$70.6 billion, depending on the scenario. (c) **US Losses:** The US is expected to bear the brunt of the losses in a comprehensive trade war with the rest of the world.

Conclusion

The trade war between America and other major trade countries has significant implications for the global economy. While some countries may benefit from the shifting trade dynamics, others will likely suffer losses. Understanding the complexities of trade wars and their far-reaching consequences is crucial for policymakers and businesses alike.



Khyati Pandya
BCA(Sem-2),
Rai School of Engineering
Rai University, Ahmedabad

Empowering Student Innovation: Gujarat Government's SSIP 2.0 Policy

As a student of Rai University, I am thrilled to share my thoughts on the Gujarat government's innovative policy, SSIP 2.0 (Student Startup and Innovation Policy 2.0). This policy has been a game-changer for students like me, providing unparalleled support and resources to turn our ideas into reality.

The SSIP 2.0 policy aims to foster a culture of innovation and entrepreneurship among students, encouraging them to think creatively and develop solutions to real-world problems. The policy provides a comprehensive framework for students to develop their ideas, from conceptualization to commercialization.

Some of the key features of the SSIP 2.0 policy that have caught my attention include:

- **Financial Support:** The policy provides financial assistance to students to develop their innovative projects, covering expenses such as prototype development, testing, and patent filing.
- **Mentorship and Guidance:** Students are paired with experienced mentors and industry experts who provide valuable guidance and support to help them refine their ideas and overcome challenges.
- **Infrastructure and Resources:** The policy provides access to state-of-the-art infrastructure and resources, including incubation centers, labs, and equipment, to help students develop and test their projects.

The SSIP 2.0 policy has been a boon for students like me, providing us with the necessary support and resources to turn our ideas into reality. I am excited to see the impact this policy will have on the innovation ecosystem in Gujarat and beyond.

As a student, I believe that policies like SSIP 2.0 are crucial in empowering us to become the next generation of innovators and entrepreneurs. I am grateful for the Gujarat government's efforts to create a supportive environment for students to innovate and thrive.



Aesvi Malaviya
BSc-IT(Sem-2),
Rai School of Engineering
Rai University, Ahmedabad

Devastating Earthquake Hits Myanmar and Its Neighbours

A powerful 7.7-magnitude earthquake struck Myanmar on March 28, 2025, causing widespread destruction and loss of life. The disaster has affected not only Myanmar but also its neighbouring countries, including Thailand.

Impact on Myanmar

The earthquake, which occurred at a depth of 10 km, approximately 19 km northwest of Mandalay, has had a catastrophic impact on Myanmar. The country has reported:

- Over 3,000 deaths and nearly 5,000 injuries
- More than 370 people missing
- Over 17 million people affected across 57 townships
- Widespread damage to infrastructure, including roads, buildings, and water and sanitation facilities

Humanitarian Response: The humanitarian response to the disaster has been challenging due to: Limited access to affected areas due to damaged roads and lack of power and telecommunications, Ongoing conflict in some areas, including Rakhine State, where the Arakan Army is fighting for autonomy, Concerns about the risk of explosive ordnance contamination and landmines

International Support: The international community has responded to the disaster with aid and support, including: China: Pledged 100 million renminbi (approximately US\$13.76 million) in supplies and sent over 600 rescue workers, Russia: Dispatched two planes with 160 personnel, including medical staff and K9 teams and United States: Contributed US\$2 million

Impact on Neighbouring Countries: The earthquake has also had a significant impact on neighbouring countries, including: Thailand: Reported 20 fatalities and widespread damage to buildings and infrastructure A 30-story building under construction in Bangkok's Chatuchak District collapsed, resulting in at least 10 deaths and nine injuries

Conclusion: The earthquake in Myanmar and its neighbouring countries is a devastating reminder of the power of natural disasters. The humanitarian response to the disaster is ongoing, with a focus on providing aid and support to those affected.



Rudra Vaishnav
BSc-IT(Sem-2),
Rai School of Engineering
Rai University, Ahmedabad

“People Are Letting AI Think So, They Don’t Have To”

In this world we don’t need to try very hard to get the things. We are just some clicks away from the world. You want to write an essay ask ChatGPT; you need to prepare a speech AI will do it for you in just seconds. Our human mind is designed like that we find the easiest way to do the things very easily and fast. In the futuristic world ai is one of the greatest inventions of human being.

AI’s role in students' life: Today the students are very lucky that they don’t need to think with their brain! bravo, AI will do it for them. Why the professors give assignments to the students? To improve their writing skills, thinking power right but now the ai is writing the essays for students, ai is preparing speech for them. Even in computer science field students are used to copy the code from ChatGPT and paste it on the compiler.

Problems the student will face in the future: The students are getting lazy using AI very much. Students says that when we can find any assignment in one click any essay or speech in one prompt then why we need to read a book? Why we need to research for hours and hours? But in future they may not develop the writing skills, critical thinking skills etc. This skill is very essential in our life. Our human being is already lazy and after using AI they become more lazier than they are before. It can cause in our day-to-day life also. People is also losing patience after using AI too much.

Using AI is not the danger...

Using AI is not dangerous and not the wrong also even AI has the benefits like ai saves the time, and many more but we don’t need to use AI in very small things. AI isn’t meant to do the thinking for, it’s meant to help us when it’s needed. If we use it all the time, we’re just training our brains to get lazy."

The solution:

- Don't use AI in little things
- Read books to build patience
- Use AI to develop critical thinking
- Don't trust AI blindl
- Don't share private data with AI

Conclusion: “Just like everything else, AI also has a good and a bad side. It depends on us how we use it. If we don’t make the right choice, we could end up facing problems we created ourselves.” Let's take maximum benefit from AI – but in limit.



Pranjal Gupta
BSc-IT,(Sem-2)
Rai School of Engineering
Rai University, Ahmedabad

The Role of AI in Saving Lives: A New Era in Suicide Prevention

The Present Challenges in Suicide Prevention

The prevention of suicide is currently the biggest issue facing society. According to the World Health Organization, every year about 700,000 people die because of suicide while thousands more are affected with suicidal thoughts and behavior. Preventing suicide has never been an easy task. Clinical assessments, interviews, and risk factors like a history of mental disorders, substance abuse, social exclusion, and recent life events are all significant parts of traditional approaches. Although these techniques are helpful, they often fail to capture the nuances of a person's mental condition, and it can be difficult to identify early warning signs. The difficulty with the intervention is that most of the suicide-prone people do not reveal their intentions or look for assistance. These, along with the difficulties, the truth that suicide is a complex problem that is complex and depends on various social, psychological, environmental, and hereditary variables is increasingly being acknowledged. Although they can be helpful in specific settings, traditional approaches are, for the most part reactive, with little time to intervene.

We need innovative measures in the detection and management of high-risk suicide prone because the rate of suicides and attempts is still very high. A meta-analysis conducted by Franklin and his group suggests in a 50-year review, no marked improvements occurred when it came to suicide attempt prediction. It states the accuracy gap surrounding the issue of suicide risks, further emphasizing that perhaps methods with which risk of suicide is estimated have to advance. Now AI raises a new glimmer of hope: proactive and personalized yet easily accessible intervention that would assist in eradicating the misery of suicides and thereby prevent death from such circumstances.

AI in Suicide Prevention: Developed Approaches

AI, particularly machine learning and natural language processing, could significantly change the suicide prevention models in real-time analytics, specific intervention strategies, and forecasting abilities. Such technologies could theoretically identify hidden patterns of behavior that ensure at-risk individuals obtain support early enough to avert suicide. The developed methods below could be utilized in predicting and preventing suicide with the use of AI. Quantum computing isn't just a technological upgrade, and beyond. I won't pretend to understand every nuance of it, but here's what I do know: the future is arriving faster than we think, and quantum computing is at its forefront.



Predictive Analytics for Early Detection

The capacity of artificial intelligence is great; it can collect vast volumes of data from numerous sources in order to analyze the fine signals of suicidal behavior. Machine learning algorithms can further analyze and evaluate electronic health records EHRs, posts on social media, text messages, and even telephone conversations for possible warning signs. For instance, natural language processing would enable the examination of texts for specific keywords, phrases, or emotional signals linked to distress, hopelessness, or suicidal thoughts. Experts have recently started scanning the content being shared on social media sites, such as Twitter, Facebook, Instagram, and Reddit, using artificial intelligence to identify at least potential risks. These AI models can identify changes in a person's language pattern, sentiment, or internet behavior that may indicate poor mental health. In so doing, these changes can make AI raise red flags among caregivers or even mental health professionals about taking measures before matters worsen.

Personalized Motivational Alarm

When it detects risk factors after collecting data from social media and other platforms, AI triggers alarms with inspirational messages, calming and relaxing music, or guided breathing exercises to help the person regain composure and standpoint at the time of a suicide attempt. AI may help in building a world where mental health care is more actively and effectively provided than ever before. This would be of huge importance to many patients at a greater risk of such serious problems. The application of AI for suicide prevention is still developing, but one with immense potential. The future may hold better tools, like AI that can power virtual counselors or models that can predict suicide before it occurs. Yet, for AI to achieve its complete potential in preventing suicide, it must be responsibly developed and organized, prioritizing the privacy of the patient, ethics, and openness of its processes.

Conclusion

AI opens new ways to help prevent suicide: it brings hope in early detection, personalized intervention, more accessible, nearby, and mental health support. The challenges are there, but its capacity to save lives and bring down the suicide rates is evident.



Brush Up Your Minds!!!

Take a Screenshot of your solved puzzle and share within 30 min of it's publish. The shout-out is given to first 3 Students in the next volume who will share correct answer at mail id sankhala.megha@raimiversity.edu

Kindly Find the Answer key in next volume.



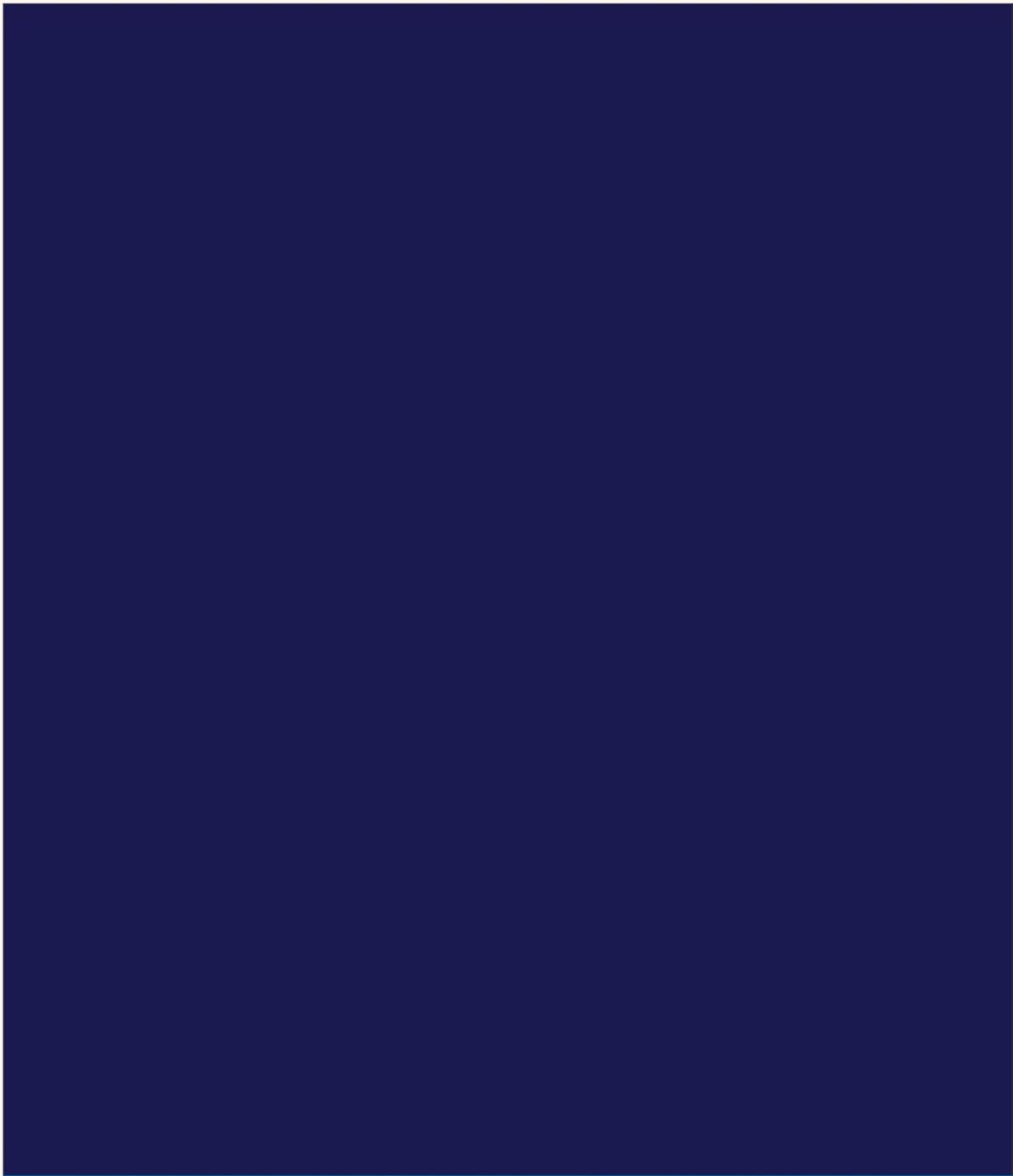
- | | | |
|------------|------------|----------|
| ALGORITHM | BACKUP | BITCOIN |
| BROWSER | CLOUD | CODING |
| COMPILER | CYBER | DATABASE |
| DEBUGGING | DECRYPTION | EMAIL |
| ENCRYPTION | FIREWALL | HARDWARE |
| INTERFACE | INTERNET | LOGIN |
| MACHINE | NETWORK | PYTHON |
| ROUTER | SCRIPT | SERVER |
| SOFTWARE | VIRUS | |



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Kindly provide your valuable feedback.



SH-144, Village - Saroda, Taluka - Dholka, Dist. - Ahmedabad-382260 Gujarat (India).
E-mail : info@raiuniversity.edu | Web : www.raiuniversity.edu
Mobile : +91 8980004325

