

Chandryaan-3

Making Landing Possible





PMI Gujarat, India Chapter Newsletter

October 2023 issue



October 2023 issue



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 - Project Management Regional Conference (PMRC) 3rd June 2023 @ Dhaka



Chandryaan 3

Chandrayaan-3 is a follow-on missionto Chandrayaan-2 to demonstrate end-to-end capability in safe landing and roving on the lunar surface. It consists of Lander and Rover configuration. It was launched by LVM3 from SDSC SHAR, Sriharikota. The propulsion module carried the lander and rover configuration till 100 km lunar orbit. The propulsion module has Spectro-polarimetry of Habitable Planet Earth(SHAPE) payload to study the spectral and Polari metric measurements of Earth from the lunar orbit.

South Asia Region Meeting -1st Sep @ Chennai

- Project Management South Asia Conference (PMSAC) 2-3rd September 2023@ Chennai
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Project Management

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11 Quiz - QR Code Based

Registered Office :

C - 201, 2nd floor, The First, B/h Keshav Baugh Party Plot, Nr. Shivalik High - Street, Vastrapur, Ahmedabad, Gujarat.380015.

RESIDENT'S MESSAGE



DR. Sanjay Buch President, PMI Gujarat India chapter

Dear Members and PM Community

Each human is a volunteer, and the spirit of volunteering is alive within. PMIGJC Volunteers enthusiasm and spirit have inspired me to make every volunteer alive in a noble sense. India as a country has seen a tradition of volunteerism since the days of Mahatma Gandhi, so volunteerism is not new. In the context of our own PMI, Gujarat, India Chapter, one could confidently say that a

volunteer resides in each member. The authors suggest an approach to unearthing a volunteer in every member.

Volunteering - definition

In general terms, volunteering is the practice of people working on behalf of others or a particular cause without payment for their time and services. Volunteering is generally considered an altruisactivity intended to promote good or improve human quality of life, but people also volunteer for their own skill development, to meet others, to make contacts for possible employment, to have fun, and for a variety of other reasons that could be considered self-serving. Volunteering takes many forms and is performed by a wide range of people. Many volunteers are specifically trained in the areas they work in, such as medicine, education, or emergency rescue. Other volunteers serve on an as-needed basis, such as in response to a natural disaster or for a beach cleanup. In a military context, a volunteer army is an army whose soldiers chose to enter service as opposed to having been conscripted. Such volunteers do not work for free and are given regular pay.

Changes lending to Constraints

In our quest for efficiency and prosperity, we have urbanised our cities and towns. Growing urbanisation has led to demanding working hours and longer travel distances, which have become deterrents to volunteering.

Some thoughts in the context of PMI Gujarat Chapter...

In an urban city like Ahmedabad, Vadodara, Surat, and Rajkot, we feel there is a need to build an ecosystem so that every member of PMIGJC could volunteer in his or her own way.

We could leverage technology to connect practicing managers in our chapter by creating a PMP address book. This might help professionals network with each other. In addition, a 'Mentor, Mentee' programme could be devised so that one-to-one relationships could be established amongst the professionals. This may lead to progression in career, knowledge, etc.

Physical meetings could be converted to tele-meetings or web-meetings so that people do not need to travel far. This may increase attendance, and many members would be willing to participate. Such meetings could be scheduled during working hours as well.

RESIDENT'S MESSAGE

Most often, it is opined that we attend PMP forum or club meetings to ensure the score of PDUs. Such attendance does cost precious time when a member has to attend to his or her work, family, continuing higher education, etc. The chapter could devise avenues for PDUs by creating more self-help groups that will enable community development. For example, practicing PMPs could help their own society (say, the building in which they live, nearby schools, etc.) and share their success stories. This could be a real-life experience from which everyone can learn. Such a success story may earn PDUs for the writer.

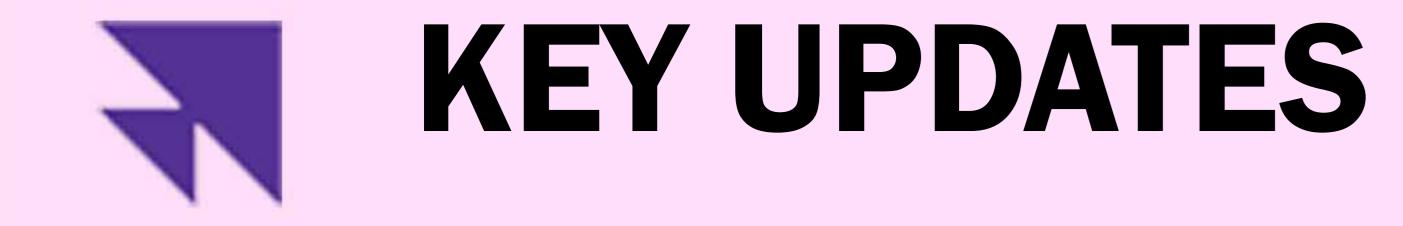
Men and women, in their journey from cradle to crematorium, always look for opportunities to be attended to and recognized. It echoes in the saying "only the crying baby gets milk', meaning only the person who asks gets (what?). Recognition always motivates anyone; a PMI member is no different! When a volunteer member is suitably recognised, he or she gets motivated, and other members draw inspiration.

Lessons Learnt

Every Indian is truly inspired by the acts of the leaders, right from Mahatma Gandhi to Anna Hazare. There is an opportunity for every member of the PMI Gujarat, India Chapter to serve and have fun at the same time. In order to encourage volunteerism within the context of our Ahmedabad, Vadodara, Rajkot, and Surat, we must create an environment that is congenial. This would remove constraints and enable every member to be a volunteer. As we have learned from PMBOK®, rewards and recognition would also attract more volunteers.

PMI Gujarat, India Chapter provides development opportunities to our members through training, monthly programmes, networking, community volunteer work, and knowledge and information sharing via our website.

It will be our pleasure to connect with you in person. You may reach out to me on my cell number, +919987769989, or email president@pmigujaratchapter.org.



PROJECT MANAGEMENT RIEGIONAL CONFERENCE (PMRC) 3rd JUNE 2023 @ DHAKA

The conference brought together project managers, industry experts and professionals from across the South Asia region to share insights, network and learn from each other with keen focus on inculcating a resilient approach towards managing projects.

Project Management Institute South Asia held the 9th edition of the flagship event Project Management Regional Conference (PMRC) in collaboration with the PMI Bangladesh Chapter. The day-long event themed 'Project Management: Architecting Resilience' was graced by KM Abdus Salam, senior secretary of Bangladesh Parliament Secretariat and was attended by delegates from prominent organizations and government institutions, who discussed innovative approaches and strategies for managing projects, particularly in a growth-focused landscape like Bangladesh.

The conference commenced with a welcome note by Annesha Ahmed, president of the PMI Bangladesh Chapter, followed by an enriching fireside chat with Dr Srini Srinivasan, regional managing director of PMI South Asia.

PMRC 2023 served as a valuable platform for project professionals, chapter leaders, and business professionals from the region to exchange information on best practices, explore the latest trends and technology, and benefit from thought-provoking addresses by industry leaders across domains, thus showcasing the true power of community.







ASIA PACIFIC/SOUTH ASIA LEADERSHIP INSTITUTE MEETING (LIM 2023) 27-30th July @ BALI

PMI Leadership meet, has been an experience that goes beyond words... connecting, sharing, learning and more so, filled with spirit of together we can!!!

Project Management Institute leaders Pierre Le Manh , jennifer tharp, LuAnn Piccard, PMP and R9, R10, R11 and R15 leaders YeYoon K., Girish Kadam, Abhishek Sharma, Danny Chung and all for putting together this fabulous event and providing a platform for all of us volunteer leaders to exchange ideas and brainstorm solutions.





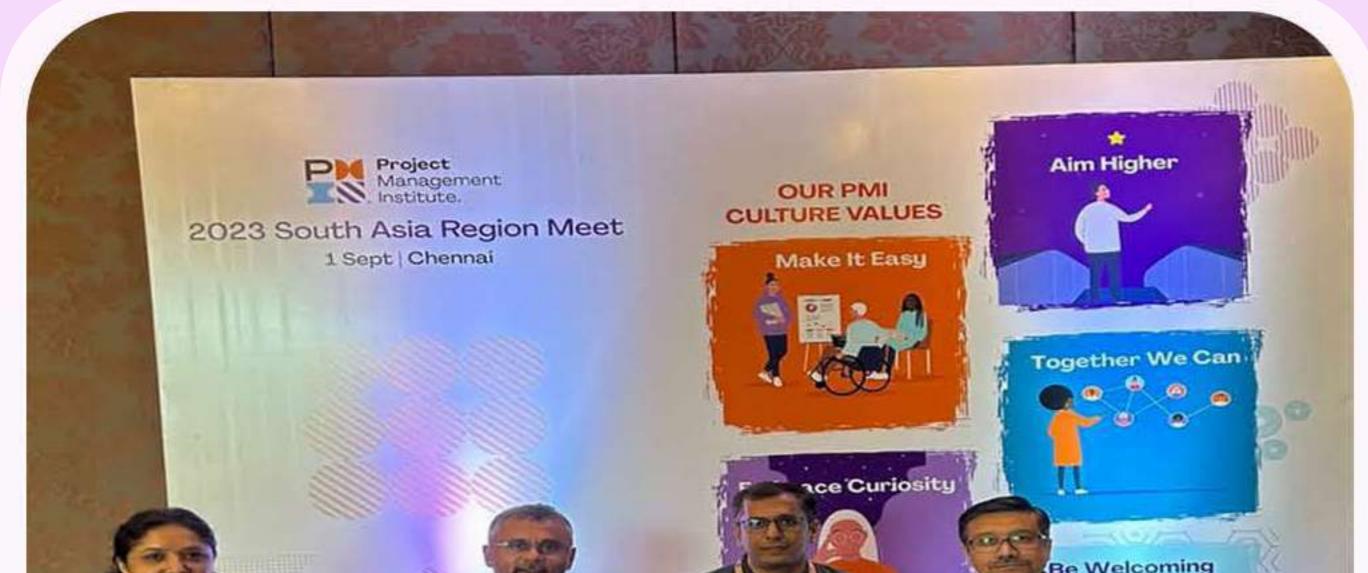
SOUTH ASIA REGION MEETING - 1st SEP @ CHENNA

1st Sep, 2023, four board members of PMI Gujarat, India Chapter Prerak Shah (VP Admin), Brijesh Shah (VP Programs), Bharat Thakarar (VP Technology) and Hiral (Vyas) Dave (VP Volunteer Development) attended the PMI South Asia Region (India, Sri Lanka and Bangladesh) Meeting held at Chennai.

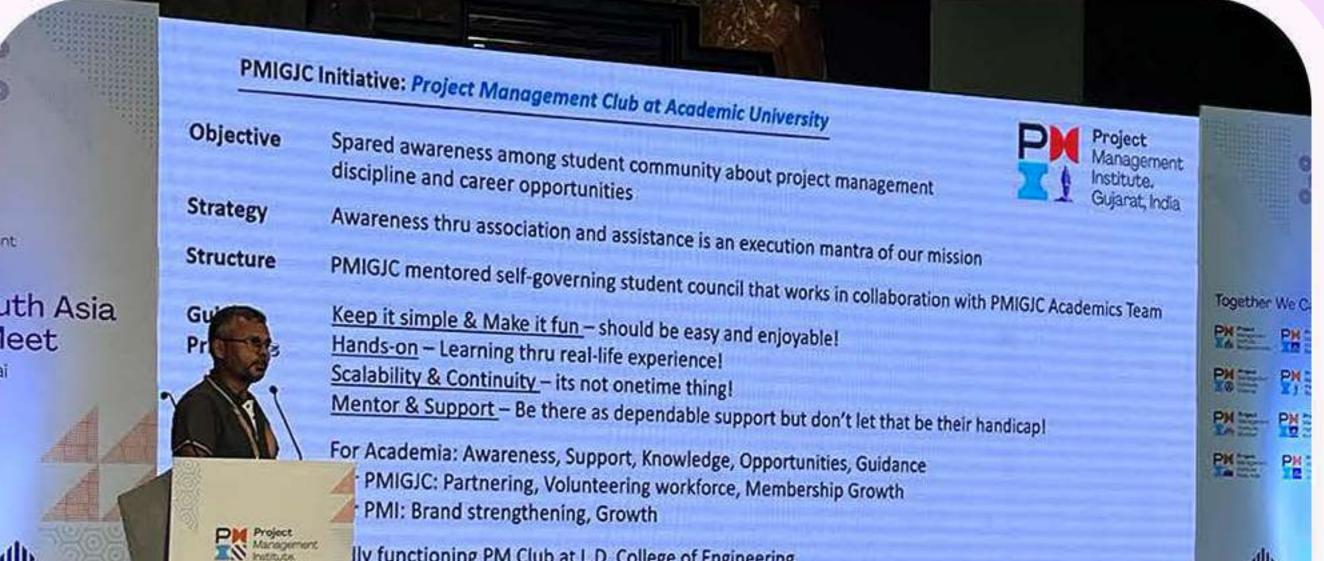
It is this one opportunity where PMI South Asia Chapter Leaders meet to exchange insights on their regional programs, exchange their ideas, gain knowledge about R11 initiatives, attends workshops and learn new developments at PMI Regional as well as Global level. One platform where each Chapter President presents their chapter vision and one of the best innovative initiatives of the chapter.

Presence of Ike Nwankwo (Governance Committee Chair, PMI) and Prasanna Sampathkumar (Region Mentor PMI South Asia) – Their Fireside Chat, Abhishek Sharma and Nisha Nanda (PMI India Administration Team) – Their session on new initiatives, were yet another valuable session.

Once in a year, time to meet, cherish and learn from the fellow chapter leaders of South Asia.







PROJECT MANAGEMENT SOUTH ASIA CONFERENCE (PMSAC) 2-3rd SEPTEMBER 2023 @ CHENNAI

On 2-3, September 2023 Chapter Leaders, Volunteers and a few members of PMI Gujarat, India Chapter had the privilege of attending the largest annual Project Management event in the South Asia Region (Bangladesh, India, and Sri Lanka) - PMI South Asia Conference #PMSAC23 on Innovation in Action: Connecting Humans & Technology, hosted by PMI Chennai Chapter.

Travel from the "Land of Garbas" to the "Land of Bharatanatyam" was a great opportunity to gain invaluable insights, connect with fellow PMI members and industry experts while exploring the relationship between human resourcefulness and innovative advancements in the field of Project Management.









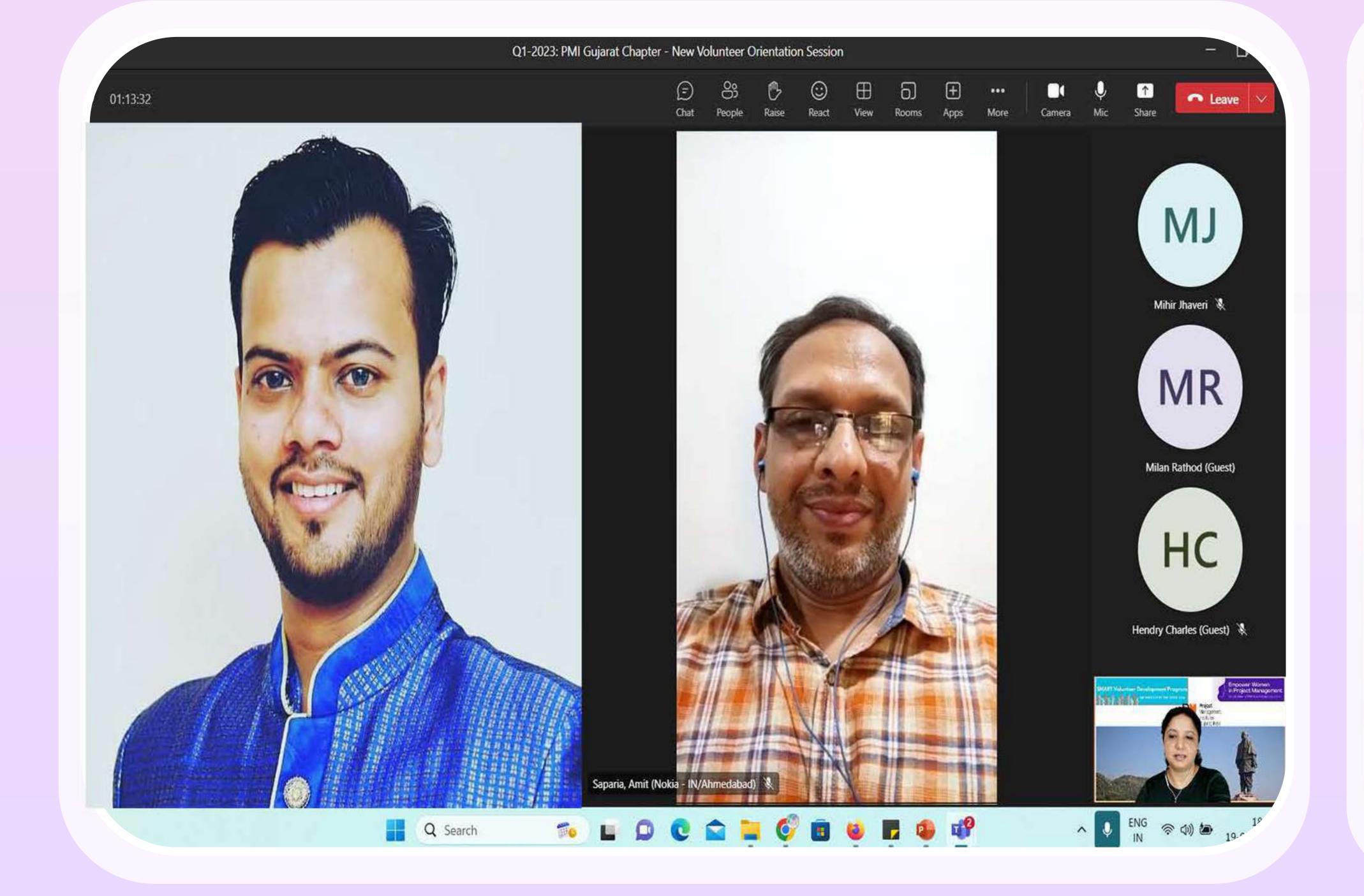
VOLUNTEERING MEET

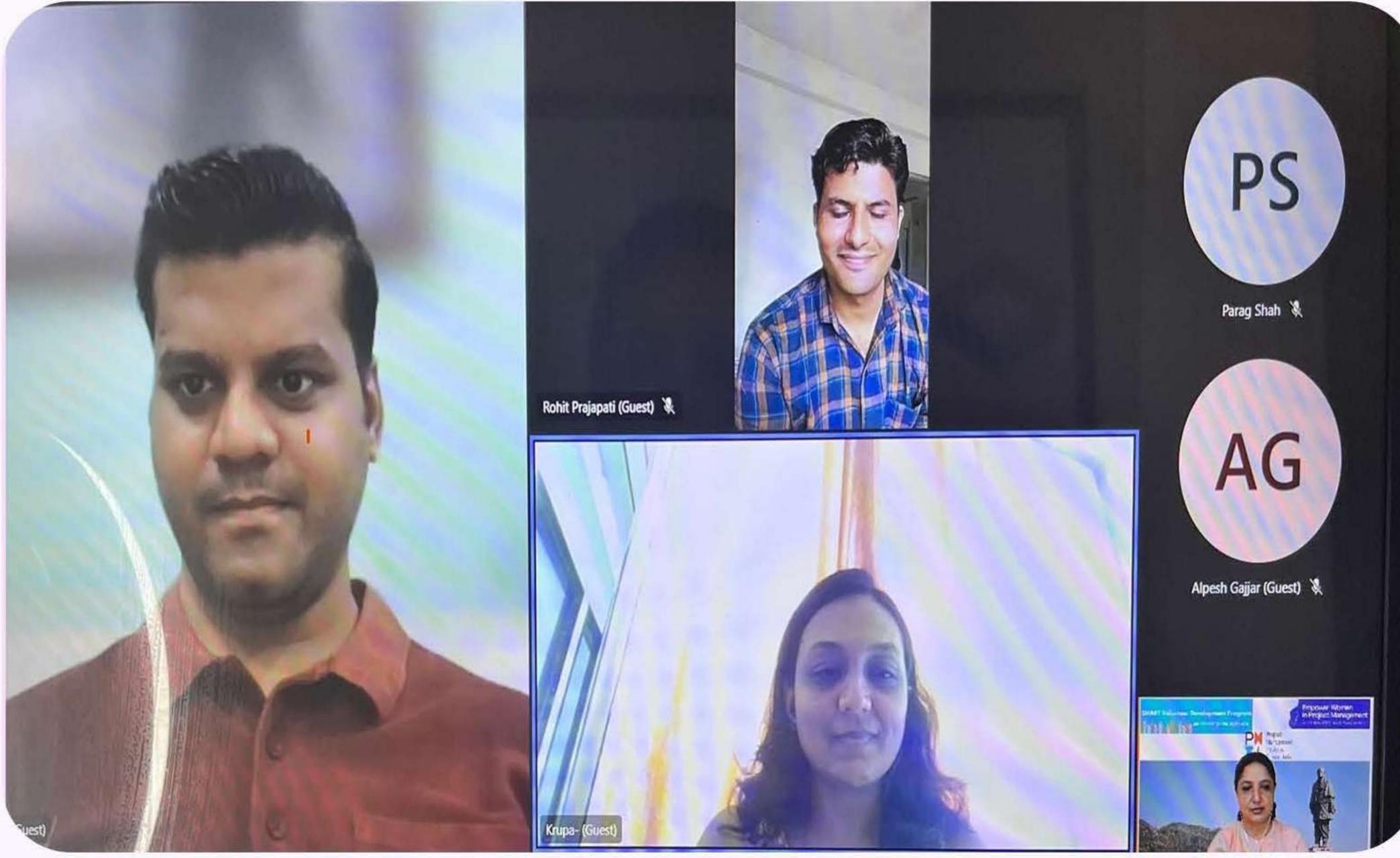
VEP Session by the Product Owner Herself Lauren (Hosted by : PMI Gujarat, India Chapter For South Asia Region BODs and Volunteers)



Q1 - PMIGJC New Volunteer Orientation Session

Q2 - PMIGJC New Volunteer Orientation Session





CHAPTER HIGHLIGHT

PM FORUM : INNOVATION AND BEING HUMAN IN THE WORLD OF AI

PMI Gujarat Chapter successfully hosted the enlightening "PM Forum: Innovation and being human in the world of AI" on August 6, 2023. The event united over 100+ registrations, gathering more than 70+ project management professionals and technology enthusiasts, including both PMI Gujarat Chapter members and non-members. The live broadcast of the event at DevX Vadodara underscored PMI Gujarat Chapter's commitment to facilitating accessible knowledge-sharing across regions. The event's impact was further enriched by the active participation of Gujarat Chapter volunteers. Amidst all the learning, attendees also had the opportunity to engage in enriching activities, network with peers, and indulge in the enjoyment of refreshments, including tea, coffee, snacks, and lunch.















PM FORUM : EPC INDUSTRY AND ITS DIGITALIZATION LANDSCAPE

Insightful PM Forum session with Ritwik Trivedi!

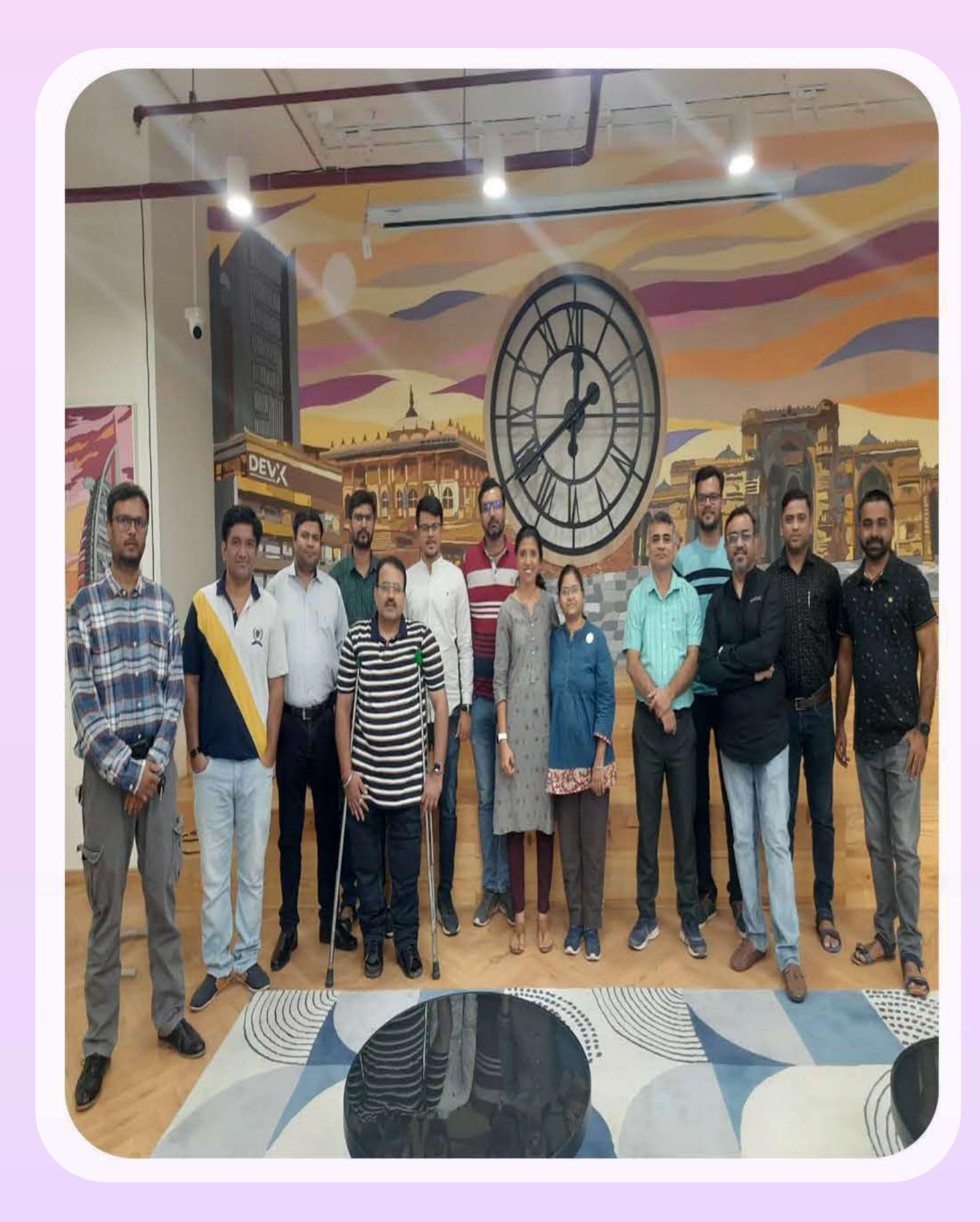
It was a fantastic turnout, with more than 50 professionals from various industries joining us, both in-person in Vadodara and virtually in Ahmedabad at DevX.

We delved deep into the #EPC industry, dissected project management challenges, and explored the power of digitalization (AI, Blockchain, Digital Twins, Computer Vision & VR) in the design & engineering phase to improve efficiency by reducing overall costs.

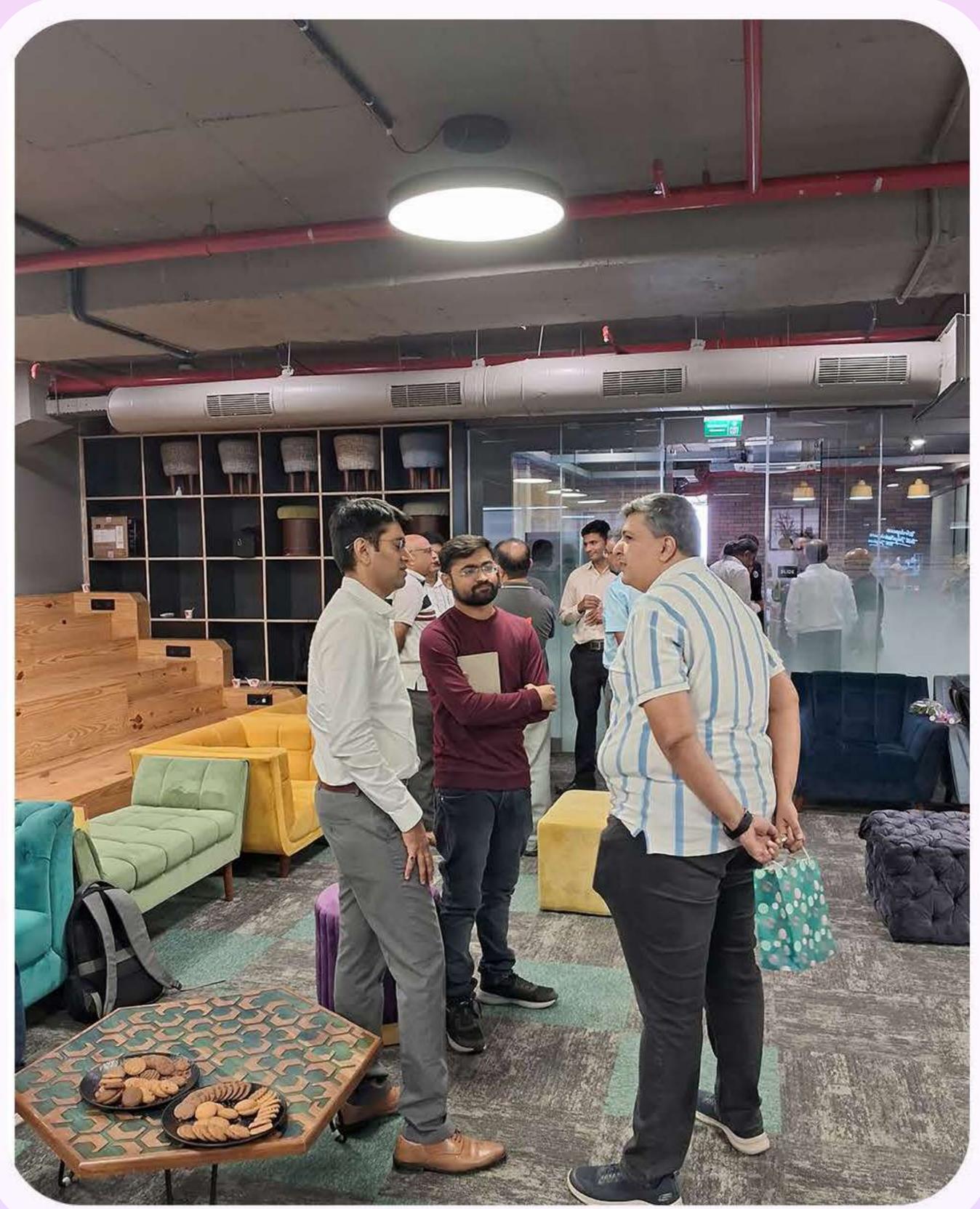
These innovations are shaping the future of project management and have the potential to revolutionize the industry.

Thanks to everyone who joined the discussion and contributed to the conversation!

The networking opportunities were incredible, bringing professionals together to connect and share insights









CHAPTER HIGHLIGHT

CHAPTER OF THE YEAR FINALIST

We want to extend our heartfelt gratitude to every member, volunteer, and leader at PMI Gujarat, India Chapter for helping us achieve the incredible milestone of being named a Finalist in Category I for the 2023 PMI Chapter of the Year Awards Program. This recognition wouldn't have been possible without your unwavering commitment and dedication to excellence in Project Management.

Our journey doesn't stop here - we're continuously striving for excellence and innovation, shaping the future of Project Management not just in Gujarat but beyond. Your support and hard work are the driving forces behind our success, and we couldn't be prouder of what we've accomplished together.

Let's keep up the fantastic work and continue making an impact on the world of Project Management!



TRAINING & DEVELOPMENT

We at PMI Gujarat, India Chapter Conduct Online Training Program Regularly For professionals Who are aspiring to get certified by The Project Management Institute for Various Certificates.

Training Conducted by PMI Gujarat, India Chapter in year 2023.





UPCOMING TRAINING



What's in it for you?

- 4-Day Instructor-Led Training
- **35 Contact Hours** \checkmark

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Support for filing an application to PMI

Post training support from Instructor for clearing doubts

COURSE FEES: FOR PMI MEMBERS: RS. 14000 + GST FOR NON-MEMBERS: RS. 16000+GST

Training Schedule





Contact for more info:

Nikhil Dewaskar

(2) +91-9925015264

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NEMBERSHIP BENEFITS

As a PMI Gujarat, India Chapter member you can :

Download the PMBOK Guide for free.

> Earn PDUs at local chapter events, webinars & training.

Master new skills through free webinars and events.

Stay ahead of deadlines using 1,000+ free tools and templates.

Join the Project Management Gujarat, India Chapter community to make local and global connections.

Participate in Exclisive Gujarat India Chapter Education and Networking Events.

Get PMI certification examination preparation support.

Participate in other education and training sessions for self-development.

Attend and Participate in Monthly Chapter session with key industry speakers.

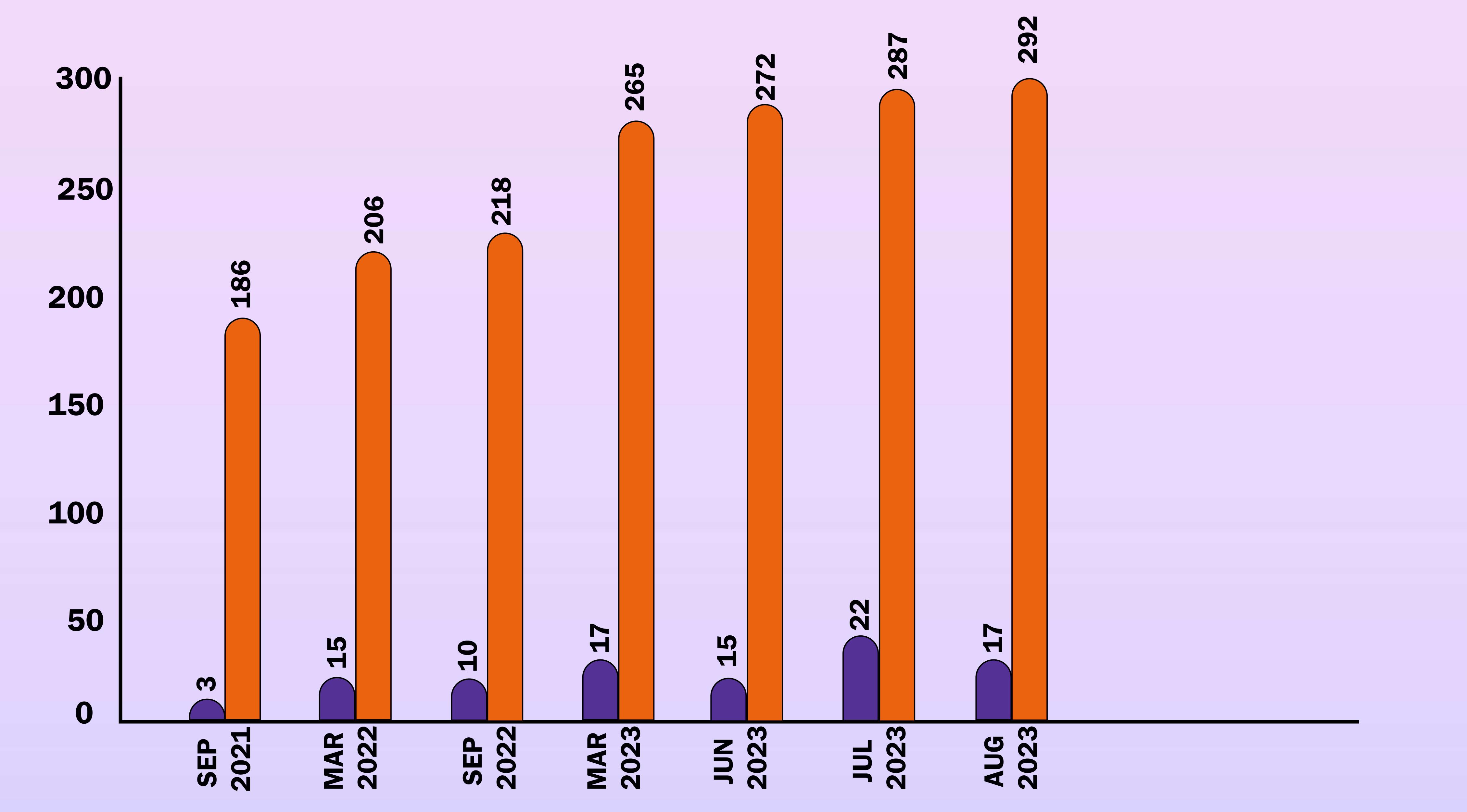
Attend Gujarat India Chapter networking events.

As Members attend our chapter evenys for free or for discounted fees.

Have an opportunity to become a volunteer and grow as a leader in Project Management.

As per data till 20-sep- 2023 : Credential Type : All PMI credentials

Credential Time : All Chapter Member with Credentials







3 2023 Certificate Holders

Person ID	First Name	Last Name	Cert Type Name	Original Grant Date
3092863	PRAKASH	MAGNANI	PMP	12-09-2023
8855515	Rinkal	Aslaliya	PMP	12-09-2023
9167444	Pratik	Yagnik	PMP	08-09-2023
9566361	Mukund	Bakale	PMP	08-09-2023
8867140	Juned	Khan	PMP	07-09-2023
6666874	KRUNALKUM	PATEL	PMP	06-09-2023
9084499	Sanjay	Fulbariya	PMP	27-08-2023
8859185	Mayur	Shah	PMP	25-08-2023
6997333	Saumil	Shah	PMP	19-08-2023
9171756	Zeeshan	Haider	PMP	19-08-2023
7314917	Chirag	Lakhani	PMP	18-08-2023
9169394	Tejas	Patel	PMP	16-08-2023
8924460	Naveen	BS	PMP	14-08-2023
7607081	HEMANT	SUTHAR	PMP	04-08-2023
8626181	Kiran	Oza	PMI-ACP	30-07-2023
4906475	UMANG	SALOT	PMI-ACP	24-07-2023
6583599	Jeet	Bhatt	PMP	24-07-2023
7371754	Nitin	Gupta	PMI-ACP	22-07-2023
8971663	Joyab	Bhabharawal	PMP	11-07-2023
8963357	Apurva	Singh	PMP	24-06-2023
3282285	Varun	Luhar	PMP	22-06-2023
8076482	Vaibhav	Doshi	PMP	20-06-2023
8551357	Hira	Shakil Khan	PMP	18-06-2023
8701355	Parth	Patel	PMP	05-06-2023
5590138	Saket	Bhore	PMP	04-06-2023
3110524	Tarunkumar	Rana	PMP	03-06-2023
8351786	Mohammad	Anas	PMP	24-05-2023
8682991	Sarang	Wamorkar	PMP	23-05-2023
7636535	minal	mehta	PMP	21-05-2023
6940885	Alpesh	Gajjar	PMP	08-05-2023
4742926	Jaimin	Bhavsar	PMP	24-04-2023
8626181	Kiran	Oza	PMP	24-04-2023
7371754	Nitin	Gupta	PMP	15-04-2023
8510742	Rishi	Dave	PMP	14-04-2023
7793905	ATUL	KOTHARI	PMP	11-04-2023
8503671	Sarvesh	Niranjan	PMP	01-04-2023



PAST EVENTS



Supply chain risk management is an emerging and important topic in our dynamic and interconnected world. Supply chain risks can be managed more effectively by the structured approach divided into the phases of risk identification, risk measurement and risk assessment; risk evaluation, and risk mitigation and contingency plans.



Project Managers of today need to be resilient to manage uncertainty and change effectively. What if project managers like curious cats – ask the right questions, become productively inquisitive, to seek solutions a project's problems, and challenge the status quo?

This presentation will take you through the "Case of curiosity" that never killed the project manager, but improved the outcomes of projects and transformed the teams to be innovative and future fit.



About the Presenter

Parul Engineering and Technology Institute Alumni with 15+ years of vast experience at various Indian firms in India. Specializes in areas of Estimation, Tendering, Project Management, Project Supply Chain Management in Engineering & manufacturing of Pumps & Steam Turbines. Rich experience to prepare project scheme from concept to commissioning. Expertise in designing, consolidating & improving organizational processes. Innate strengths in handling cost effective procurement, evaluation of vendors.



Chirag Patel BOP buyer | Siemens

Presenter's Credentials

Buyer, Siemens-Vadodara; Manager Estimation, Pratibha Engineering-Vadodara; Senior Engineer, VA TECH WABAG-Vadodara; Electrical Engineer, Jyoti Ltd-Vadodara

WHY: Gain knowledge, network with peers and	DATE: Sunday, April 23rd, 2023	
earn 1 PDU	TIME: 10:30 AM - 12:00 PM	
FEE: Open For All	WHERE: Online (MS Teams)	

PDU: 1.0 PDU's (0.5 Technical, 0.5 Strategy)

REGISTER ONLINE AT https://www.pmigujaratchapter.org/single-event/assessing-and-managing-procurement-risks-forsupply-chain-management

About Speaker

About the Presenter

Priya is a mother of two, Author, Blogger, Women Empower believer, Dreamer, Creator and a Futurist. An Agile Evangelist and a Program Manager spearheading the quality engineering - India team for Energy- Utilities and Chemicals sector.

Presenter's Credentials

She Leads Agile Community of Practice within the organization of 800 members, across 40 countries. She is speaker for national and International conferences on Digital, Agile and Project Management. Since Jan 2020, she has been building a women community Women PowerUP Network - a virtual community of around 878 women across the globe.

WHY: Gain knowledge, network with peers and earn 1 PDU

FEE: Open For All

PDU: 1.0 PDU's (0.5 Technical, 0.5 Strategy)

DATE: Sunday, June 25th, 2023 TIME: 10:30 AM - 12:00 PM (GMT+5:30) WHERE: Online (MS Teams)

REGISTER ONLINE AT https://www.pmigujaratchapter.org/single-event/out-of-the-question-curiosity-a-power-skill

PM Forum #2023004







About Topic

Design thinking is a human-centered approach to innovation—anchored in understanding customer's needs, rapid prototyping, and generating creative ideas-that will transform the way you develop products, services, processes, and organizations. By using design thinking, you make decisions based on what customers really want instead of relying only on historical data or making risky bets based on instinct instead of evidence.

Rohan Shah is a well regarded Design Thinking & Futures Thinking Consultant and a serial entrepreneur. He is practicing Design Thinking and futures thinking since last 15 years, helping top organizations to leverage the same for their Digital Design, Digital Transformation, Experience design and Innovation initiatives and help them to take an edge in this disruptive time.

About Speaker





EPC Industry and its Digitalization Landscape



About Topic

Part 1 EPC industry overview: Introduction to EPC industry, Typical execution structure (different tiers and stakeholders), Stakeholder interfaces, Project phases, Key execution challenges and Industry scenario. Part 2 Digitalization of EPC industry (A research project): Business context for digitalization, Key issues to be resolved, Current research state in nutshell, Discipline level interests, Technology- Utility map for digitalization.

About Speaker

Project manager in Engineering & IT field with over 20 years of EPC experience including many mega projects in diversified roles. Monitored project progress, margin and quality of work. International exposure having worked in 4 different countries. Master's degree from BITS Pilani and leadership courses from globally top institutes. Pursuing Executive MBA from SP Jain School of Global Management, Australia.

Currently, Rohan is working with Atlantic Council, a US based ThinkTank on designing global AI policy making with US Federal State Govt., UN, and other union countries. He has conducted design process workshop for policy making for govt of Asian countries and African countries.

Rohan has started his design journey with Apple computers and was the part of the first iPhone design team. Later, he has consulted AT&T, Adobe, Taleo, US Federal Government and many more fortune 500 clients.

WHY: Earn 1.0 PDU's (0.5 Technical, 0.5 Strategy)

DATE: Sunday, August 6, 2023

TIME: 10:30 AM - 12:00 PM

WHERE: DevX, Nr. Shivalik High-Street, Vastrapur, Ahmedabad

FEES: Complementary for PMI Gujarat Members & Rs. 200 for Non Members

REGISTER ONLINE AT: https://forms.office.com/r/yHRFgi1tCa

Presenter's Credentials

GM, Tech Mahindra, India, Head of Engineering, Quality International Co, Sharjah, UAE, DGM, L&T Hydrocarbon Engineering, Sharjah, UAE, Project Engineer/ Manager, Fluor, Saudi Arabia, Mechanical Engineer, Petrofac, Linde, Fluor India and L&T



Ritwik Trivedi eneral Manager, Tech Mahindra

WHY: Earn1.5 PDU's (1 Technical, 0.5 Strategy), Gain knowledge, network with peers

DATE: Sunday, October 8, 2023

TIME: 11:00 AM - 1:00 PM WHERE: In-Person @ Baroda DevX – 10th Floor, Notus IT Park Sarabhai Campus, Vadiwadi, Baroda Live streaming @ Ahmedabad – DevX, 4th Floor, Binori B Square, 3, Sindhu Bhavan Marg, Bodakdev, Ahmedabad

REGISTER ONLINE AT: https://www.pmigujaratchapter.org/single-event/epc-industry-and-its-digitalization-landscape/



PAST EVENTS

1. LD PM Club Event Jun 2023, Project Management for Engineers.

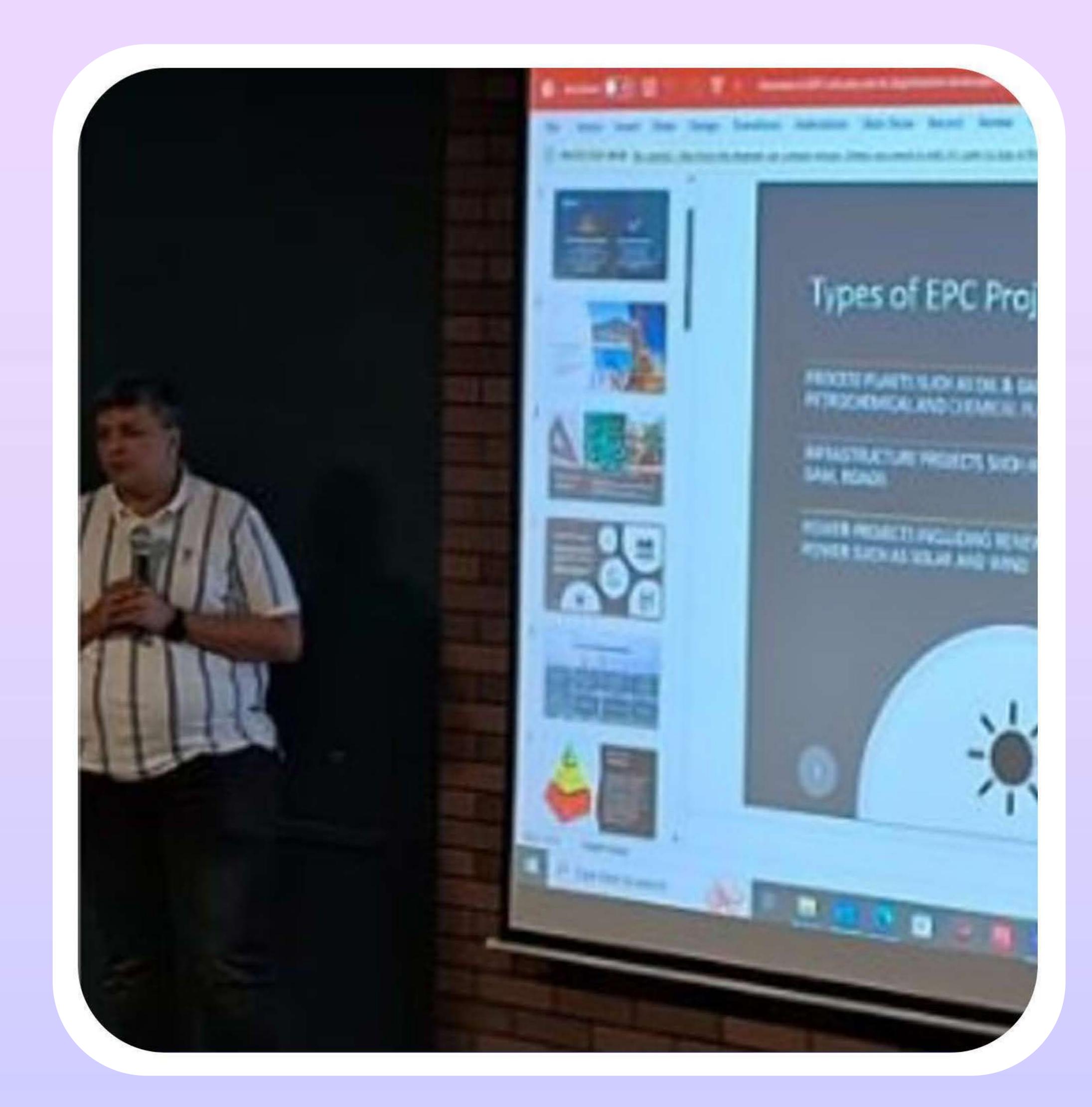
2. Agile Workshop @Nirma University for MBA Students





PROGRAMS EVENTS







MAKING LANDING POSSIBLE CHANDRAYAAN - 3

SAC/ISRO, Ahmedabad has contributed significantly and in a big way in Chandrayaan-3 mission with the design and development of total 11 systems for Vikram Lander of Chandrayaan-3 including camera and radar altimeter sensors as well as critical lander soft landing related landing site selection, signal processing and other real time computation tasks. The write-up below highlights the various significant features of these indigenous developments by various design teams at SAC, Ahmedabad.

(1) Landing Site Selection for Chandrayaan-3 Lander The Chandrayaan-2 mission activities started with the definition of mission objectives, wherein it was decided to give preference to Soft landing on Moon as the priority activity apart from movement of rover on moon surface and carrying out in-situ experiments on the surface of moon. This was carried forward for Chandrayaan-3 mission. Thus, the main objective of Chandrayaan-3 mission was to soft and safe landing of a lander on south polar area of lunar surface. The mission goal of soft landing will have ensured by an appropriate lander descent trajectory and navigation, guidance and control while the safe landing has been ensured by proper selection of the landing location that meets all the engineering constraints.

Total 20 sites consisting of 09 sites in the near side of the south polar region of moon were selected. The 09 South Polar sites was further characterized by OHRC multi-view images and the derived DEMs for this purpose. Out of these 09 Sites a Prime landing site was selected. The Chandrayaan-3 Prime Landing site (69.367621 S, 32.348126E) covering 4km by 2.4km area is situated in the south polar region. This landing area lies between Manzinus U and Bouguslawsky M crater of lunar surface. This site was selected based on terrain parameters and engineering constraints. The parameters used for final characterization are Slope less than 10 deg, Boulders less than 0.32 meter, Crater and boulder density, Sunlit for at least 11-12 days, Visible to Earth for Radio communication, Local terrain features such that they don't shadow the site for long durations, Distribution of safe grid of 24m x 24m inside 4km x 2.4km landing area. A comparative study was also carried out to compare the Chandrayaan-3 proposed landing sites with respect to the actual landing sites of Apollo and Chang'e missions.



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The various hardware and subsystem developments carried out for lander unit of chandrayaan-3 at SAC/ISRO, Ahmedabad are depicted below and described in detail.

ARTICLE/CASE STUDY

2) Chandrayaan-3 Lander Cameras / Imagers There are total 08 Cameras/Imagers designed, developed, qualified and tested for Chandrayaan-3 Lander & Rover at Space Applications Centre, Ahmedabad. Out of these, 03 cameras are part of Hazard Detection and Avoidance System of VIKRAM Lander, namely, Lander Position Detection Camera (LPDC) and Lander Hazard Detection and Avoidance Camera (LHDAC). Total 04 Lander Imagers (LI) are mounted on Lander Module to take images and/or video of the Earth and the Moon during earth bound orbits, Lunar Orbit Insertion (LOI), during pre-landing, landing and post landing activities.

3) Ka-Band Radar Altimeter (KaRA) for Altitude/Height Measurement Autonomous and safe landing systems like the one flown on Chandrayaan-3 requires various sensors providing ground-relative navigation to high level of accuracy. These sensors provide altitude and attitude information, velocity of the body, current position of the Lander craft and hazard free location for safe and soft landing. For aiding Navigation, Guidance and control (NGC) system of Chandrayaan-3, Space Applications Center (SAC) has developed a Ka-Band Radar Altimeter (KaRA).

(4) Lander Hazard Detection and Avoidance (HDA) Processor System and its Algorithms Hazard Detection and Avoidance (HDA) is a common term to designate two functionalities:
1) To identify the position of lander craft during descent phase
2) To identify the safe location for the lander craft to land softly on lunar surface during hovering phase

HDA Hardware system is accomplished using two cameras, namely LPDC and LHDAC and a Digital Processing Unit. The optical sensors (LPDC and LHDAC) provide the real time raw data to DPU for visual navigation.

5) Field test and Sensors characterisation methodology: Sensors on the Chandrayaan-3 lander have gone through extensive testing to evaluate the sensor's performance for aiding navigation and guidance in soft and safe landing.

6) Rover Movement Path Planning

The Rover of Chandrayaan-3 contains a pair of navigational camera (NavCam) which provides the close range stereoscopic view of terrain in front of Rover.

SAC Team Members of Chandrayaan-3

Nilesh M. Desai, Director, SAC/ISRO.







The new G(5G) on the Platter !



"The emergence of 5G technology has garnered significant attention over the past two years, starting from the Indian government's allocation of 5G spectrum to the subsequent rollout of 5G services by private operators. The pace of this rollout has been remarkable over the last 10-12 months, with an aggressive plan to provide 5G coverage to over 95% of the population by December 2023.

Key vendors such as Nokia, Ericsson, Cisco, ECI, and Mavenir have greatly benefited from the increased demand, receiving orders for 5G core, next-generation radios, routers, and DWDM equipment necessary for equipping 5G networks.

But what exactly is 5G all about? 5G represents the next generation of radio systems and network architecture, promising to deliver extreme broadband, highly robust, low latency connectivity, and extensive networking capabilities for both human beings and the Internet of Things. More than just a technological upgrade, 5G represents a comprehensive ecosystem facilitating a fully mobile and connected society. It drives value creation for customers and partners through existing and emerging use cases, ensuring a consistent experience and fostering sustainable business models.

Beyond technological advancement, 5G is poised to revolutionize daily life, considering the human factor in every organization and community. It is expected to usher in a new era of possibilities, leading to widespread automation. This automation, powered by an intelligent, imperceptible network, will give rise to new businesses, services, and ultimately grant people more time for their endeavors.

While numerous companies are actively exploring 5G use cases, these endeavors are still in their infancy, signifying that there is still a long way to go before the full potential of 5G technology is realized, especially in the context of India.

I firmly believe that 5G is not just for current mobility users, and to truly unlock its benefits, it necessitates a collective effort from the government, manufacturing industries, operators, and equipment vendors to establish processes, standards, use cases, and compatible products."

Amit Saparia - PgMP Nokia, Manager-Tx Design & Planning.









PMI Gujarat Chapter Conference CRAFTING TOMORROW'S WORLD STRATEGIC PROJECT MANAGEMENT FOR INDUSTRY 5.0

Saturday, 16th December 2023 (09:30-05:30 IST

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in www.linkedin.com/company/pmi-gujarat-chapter www.instagram.com/pmigujarat9

NIRMA UNIVERSITY S G Highway , Ahmedabad – 382481, Gujarat, India

#PMIGJCC23/

We extend our warm invitation to join us for an enriching in-person conference at Nirma University, Ahmedabad, on December 16. Explore, network, share insights, make an impact, and foster growth alongside industry experts and peers.

Why attend?

- Listen to visionary Keynote speakers and SMEs
- Learn about the latest tools and trends in the profession
- Network with over 300+ leaders & practitioners
- Earn PDUs

Acquire skillsets covered under the PMI Talent Triangle

QUIZ - QR CODE BASED

QUIZ : EXPLORING CHANDRAYAAN-3 : INDIA'S LATEST LUNAR MSSIONL

Are you ready to embark on a celestial journey with us? Join our exclusive quiz on India's most recent lunar mission, Chandrayaan-3! This is your chance to test your knowledge about this groundbreaking mission and learn more about India's space exploration endeavors.

Key Details:

- Quiz Duration: October 31st to November 30th 2023
- Topics: Chandrayaan-3
- Grand Prize: Surprise gift at our Annual Event for the top scorer.
- Recognition: The top 5 winners will be highlighted in our next newsletter!

Why Participate?

- Challenge your knowledge about India's space achievements.
- Stay updated with the latest developments in space exploration.
- Win prizes, earn recognition, and receive a special gift at our Annual Event.

Don't miss out on this opportunity to become a Chandrayaan-3 expert! Mark your calendars and get ready to take off into the fascinating world of lunar exploration



Exploring Chandrayaan-3: India's Latest Lunar Mission



LINK : https://forms.office.com/r/CK9848EWBY

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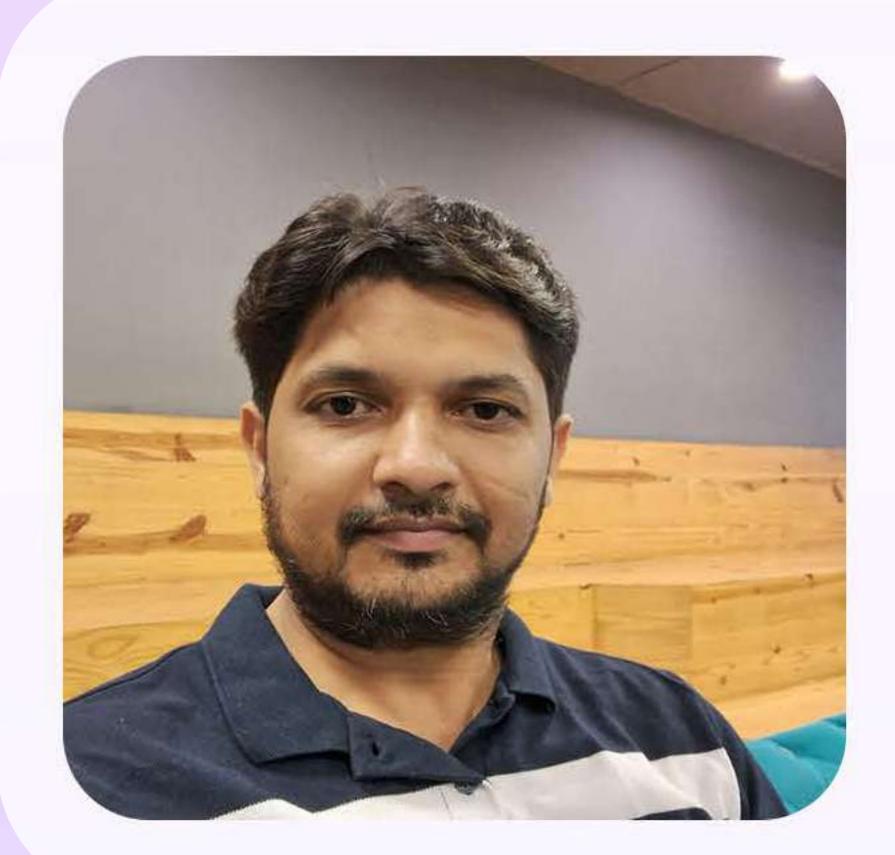
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