CEAI ACADEMY

ONE-DAY WORKSHOP

Don't Just Hear About It. Experience It.

XR & AI in Engineering and Construction



- Live XR headsets & demos
- Hands-on AI tools
- AI for design, safety & bidding
- Certificate of Participation

SPEAKERS

Suhas P Bhagwat
Prof. (Dr.) Sachin Gupta
Ashish Mehta
Rageeth Radhakrishnan

DATE

Friday, 18 December 2026

TIME

9:00 am – 5:30 pm

VENUE

CEAI Centre,
Vasant Kunj, New Delhi

See • Learn • Experience • Apply

Attend in person or join online

About the Workshop

Extended Reality (XR) – comprising Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR) – and **Artificial Intelligence (AI)** are changing how engineering and construction projects are conceived, designed, built and maintained.

From immersive design reviews and virtual safety training to AI-supported design, bid preparation, site safety monitoring and risk analysis, these technologies help organisations **raise productivity, cut costs, collaborate better and take faster, data-driven decisions.** Linked with BIM, Digital Twins and GIS, they are moving the industry towards digital-first project delivery.

But do these technologies really add value to day-to-day work, or are they being promoted for the sake of it? Experts will explain what XR and AI are, show how they are being used on real projects, and let you try them out.

> Put on a headset, try the AI tools, and see what they can do for your projects.

What You Will Discover

Immersive XR experience

Use professional VR and AR headsets to walk through 3D project models and interact with virtual environments.

AI-powered solutions

See AI tools at work across design, planning, safety, risk analysis and project operations.

Interactive engineering applications

Try applications built for engineering and construction and see how they solve real industry problems.

Integration with digital tools

Understand how XR and AI connect with BIM, Digital Twins, GIS and project management systems.

Guided hands-on sessions

Learn through guided demonstrations, live showcases and practical activities led by industry experts.

Open discussion

Bring your questions to the speakers and discuss how quickly to adopt these tools in your own work.

Who Should Attend?

Engineering & Infrastructure Professionals
Consulting, civil, structural, mechanical, electrical, design, site, planning and BIM engineers

Project & Construction Management
Project and construction managers, EPC, contracts and procurement, cost engineers, quantity surveyors, project controls

Leaders & Decision-Makers
Owners, CXOs, engineering directors, technical heads, digital transformation and innovation leads, plant heads

Consultants & Specialists
Engineering and infrastructure consultants, architects, urban planners, sustainability and HSE professionals

Government & Public Sector
Central and State departments, PSUs, urban local bodies, development authorities, Smart City teams

Technology & Digital Teams
BIM and digital engineering teams, AI and data analytics, GIS, Digital Twin and Industry 4.0 professionals

Academia & Future Professionals
Faculty, research scholars, postgraduate and final-year engineering students, and young professionals building careers in digital engineering

Industry Coverage
Infrastructure, Power & Energy, Oil & Gas, Manufacturing, Defence, Rail & Metro, Highways & Transportation, Buildings & Real Estate, Water Resources, Ports & Airports, Mining & Metals, Smart Cities

Key Highlights

01
Industry Experts
Practical lessons and real case studies from people implementing these tools

02
Live XR Demonstrations
Virtual, Augmented and Mixed Reality, experienced first-hand

03
AI Applications
AI for design, construction, safety, quality and project operations

04
Hands-on Sessions
Guided time with XR headsets and AI tools

05
Networking
Meet engineers, consultants, technology experts and peers

06
Certificate
Certificate of Participation from CEAI Academy

Meet Our Speakers



Suhas P Bhagwat

Founder & CEO, Avroglide Consultants

Suhas is the Founder & CEO of Avroglide Consultants and was formerly Vice President at L&T Hydrocarbon Engineering. He holds a B Tech (1980) and M Tech (1982) in Chemical Engineering from IIT Madras and IIT Bombay respectively, and has 37 years of experience covering the complete range of functions in EPC project execution for the Oil & Gas and Process industry, where he led Operational Excellence Initiatives and Integrated Digital Solutions for large-scale projects. He guides teams on XR and AI solutions for industry, is a Core Committee Member of CEAI-WRC, and was Co-lead for Oil & Gas – Asia Pacific at the VR/AR Association, USA (VRARA). He has been a speaker and faculty for XR training programmes of corporate organisations and educational institutions.

Session: Fundamental Concepts of XR and Its Applications for Engineering & Construction Industry



Prof. (Dr.) Sachin Gupta

Dean of Research & Innovation and Professor (CSE), MAIT, GGSIPU, Delhi

Dr. Gupta is a research leader with over 23 years of experience in higher education and technology. His research spans Artificial Intelligence, Machine Learning, Cyber Security, Blockchain and Social Media Analytics, with papers in leading journals including *IEEE Transactions on Consumer Electronics* and *IEEE Transactions on Intelligent Transportation Systems*. He holds four published and granted patents in secure IoT architectures and AI-driven emotion recognition. His awards include the Best Contribution in AI Literature Award and the High Impact Academic Publication Award. A national Resource Person for the Ministry of Education and AICTE, he holds a Ph.D. in Computer Science Engineering and is a Senior Member of IEEE.

Session: Usage of AI in Design & Construction



Ashish Mehta

Co-Founder & Director, KGraph AI Solutions Pvt. Ltd.

Ashish is the Co-Founder and Director of KGraph AI Solutions Pvt. Ltd., based in Mumbai, and an alumnus of IIT Bombay with a B Tech in Civil Engineering (2004). A serial entrepreneur with over 22 years of experience in consultancy and B2B AI sales, he drives business growth, strategy, finance and investor relations at KGraph. He has been instrumental in developing and supplying several innovative AI applications, such as AI-Powered Video Intelligence for HSE Compliance and Risk Control in Project Engineering, which uses AI agents to analyse surveillance footage in real time and recommend the best actions. He is also an elected Board Member of the Federation of Indian Export Organisations (FIEO), representing Services, IT and Consultancy Exporters.

Sessions: AI-Powered Video Intelligence for HSE Compliance and Risk Control in Project Engineering · AI Hands-On Experience



Rageeth Radhakrishnan

Business Development Head, Bala Aatral Solutions Pvt. Ltd.

Rageeth heads Business Development at Bala Aatral Solutions Pvt. Ltd., Chennai, a pioneer in XR solutions for a wide range of industry applications. He has over 16 years of experience: 10 years in Business Development, Sales and Tendering Estimation at L&T Construction, followed by Business Development and Marketing of XR solutions at Aatral. He holds a B.E. in Mechanical Engineering (2009) from Rajalakshmi Engineering College and an M.Tech in Construction Technology & Management (2014) from IIT Madras. He has driven adoption of Extended Reality solutions across the Power, Steel, Infrastructure and Oil & Gas sectors through successful deployment of these applications for clients like Tata Power, L&T, Tata Projects, JLL, JSW and AMNS, covering safety training, process training simulations, VR simulators for varying industrial use cases and integration of VR with 3D modelling, leading to significant improvement in safety and operational efficiency.

Sessions: XR for Enterprise: Accelerating Workforce Readiness and Operational Excellence · XR Live Experience

Programme Agenda

Friday, 18 December 2026 · CEAI Centre, New Delhi

9:00 – 9:45 am	**Registration & Tea**	
9:45 – 10:00 am	**Welcome Address**	**Somenath Ghosh** Vice President, CEAI
10:00 – 10:45 am	**Fundamental Concepts of XR and Its Applications for Engineering & Construction Industry**	**Suhas P Bhagwat** Founder & CEO, Avroglide Consultants
10:45 – 11:30 am	**AI-Powered Video Intelligence for HSE Compliance and Risk Control in Project Engineering**	**Ashish Mehta** Co-Founder & Director, KGraph AI Solutions
11:30 – 11:45 am	**Tea / Coffee Break**	
11:45 am – 12:30 pm	**XR for Enterprise: Accelerating Workforce Readiness and Operational Excellence**	**Rageeth Radhakrishnan** Business Development Head, Bala Aatral Solutions
12:30 – 1:15 pm	**Usage of AI in Design & Construction**	**Prof. (Dr.) Sachin Gupta** Dean of Research & Innovation, MAIT, GGSIPU
1:15 – 2:15 pm	**Networking Lunch**	
2:15 – 3:00 pm	**Sponsors' Slot** 10-minute presentation by each sponsor	**Sponsors**
3:00 – 3:45 pm	**AI Hands-On Experience**	**Ashish Mehta** KGraph AI Solutions
3:45 – 4:00 pm	**Tea / Coffee Break**	
4:00 – 5:00 pm	**XR Live Experience** Participants try XR headsets at the venue	**Rageeth Radhakrishnan** Bala Aatral Solutions
5:00 – 5:25 pm	**Interactive Discussion, Q&A and Industry Networking**	**All speakers**
5:25 – 5:30 pm	**Vote of Thanks**	**Rajiv Maini** Director, CEAI

Shaded orange rows are hands-on sessions.

Workshop Fees

Mode of attendance	CEAI Members	Others
In person at CEAI Centre, with hands-on XR and AI sessions	**₹5,000** ₹5,900 incl. GST	**₹6,000** ₹7,080 incl. GST
Hybrid join the sessions online	**₹2,500** ₹2,950 incl. GST	**₹3,000** ₹3,540 incl. GST

Fees are per delegate, plus GST @ 18%. Minimum of 10 delegates per mode.

As this is a hybrid workshop, in-person seats are strictly on a first-come, first-served basis. Register early if you want to experience the immersive technology first-hand.

Register Now

forms.gle/ChXuDEgTuNMmuUgD7

Click the link or scan the QR code

Get in touch

Anupama Garg

Academy Coordinator, CEAI Academy

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Sponsorship Opportunity

Sponsor slots are open for upcoming technology companies and start-ups in XR, AI and digital engineering, with a 10-minute presentation in the Sponsors' Slot (2:15 – 3:00 pm). To know more, please contact Anupama Garg at coordinator.ceaiacademy@gmail.com or 98711 66102.

About CEAI

The Consulting Engineers Association of India (CEAI) is the apex body of consulting engineers in India and represents the profession at FIDIC, the International Federation of Consulting Engineers. For over six decades, it has promoted quality, ethics and integrity in engineering consultancy.

About CEAI Academy

CEAI Academy, the training arm of CEAI, runs practice-oriented workshops and certification programmes led by practitioners and domain experts, helping engineers stay current with new technologies and global best practice.

Venue: CEAI Centre, OCF Plot No. 2, Pocket 9, Sector B, Vasant Kunj, New Delhi 110070