ArtEcon

Architecture Technology Engineering and Construction

AEC AI BUILDER | 90 MINUTES MASTERCLASS

AEC AI Builder Masterclass

From AEC professional to tech builder. How AI, data and product thinking are changing architecture, engineering and construction, and how you can build your first AI-powered solution without writing code.

90 minutes, INR 299	**Live, interactive session**	**No coding required**

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THE MASTERCLASS

From AEC professional to tech builder.

How AI, data and product thinking are changing architecture, engineering and construction, and how you can build your first AI-powered solution without writing code.

For architecture, engineering and construction students, fresh graduates and early-career professionals.

When
Saturday, 12 December 2026, 8:30 PM IST

Duration
90 minutes

Fee
INR 299

Format
Live, interactive session. No coding required.

OUTCOMES

What you'll take away

- Why construction is one of the biggest technology opportunities
- How to turn a site problem into a digital product
- How to build a small AI-powered solution, live and without code

THE PROBLEM

Where AEC loses time and information

45 min
spent by one engineer preparing a single daily progress report

15
WhatsApp updates a site engineer can send in one day

1

reliable progress summary is all the project manager actually needs

OPPORTUNITIES

Five opportunities for technology

OPPORTUNITY

Project data & intelligence

Converting static reports into actionable insights.

- Live progress tracking with auto-updating
- Dynamic labour and equipment allocation
- Cost control with real-time budget versus

OPPORTUNITY

AI document processing

Extracting and analysing unstructured PDFs.

- Quantities pulled directly from
- RFIs matched to the exact drawing pages
- Hidden commercial clauses flagged in

OPPORTUNITY

Workflow automation

Eliminating repetitive routing and approvals.

- Submittals routed to the right discipline
- QA/QC handover binders compiled
- Proactive alerts for critical-path delays

OPPORTUNITY

BIM & connected construction

Linking models to site reality.

- Primavera P6 schedules linked to 3D models
- Drone scans compared against design intent
- Automated clash detection and issue

OPPORTUNITY

Digital products & platforms

Custom construction-focused applications.

- Geo-tagged snagging logged directly on
- Digital permit-to-work apps for safety
- Vendor portals for material tracking

THINK LIKE A PRODUCT BUILDER

From problem to value

01
Problem: What is going wrong, and how often?

02
User: Who feels the pain every day?

03
Process: What are the steps today?

01
Data: What information goes in and out?

02
Solution: What is the simplest fix?

03
Value: Hours, money or risk saved?

BUILD WITH AI

Live demo: daily progress intelligence

A messy site update becomes structured data, a management summary and an action list, then an engineer verifies every line.

Data: Capture

Site updates, photos, reports and quantities collected in one place

AI: Understand

Reads messy inputs, extracts facts and flags what is missing

Automation: Act

Sends the summary, raises the alert, updates the tracker

People: Verify

Engineers check the output and make the decisions

90 MINUTES

Agenda

00-10 min Opening

Who builds the technology behind buildings? The AEC AI Builder path and what you will take away today.

10-25 min Construction is a technology opportuni

Where projects lose time and information, and five areas where technology changes the work.

25-40 min Think like a product builder

Problem-first thinking and a simple framework from problem to value.

40-65 min Live demo: build with AI

Turn a messy site report into structured data, a management summary and an action list.

65-78 min Your turn

Small groups solve a real challenge: 15 WhatsApp updates into one reliable summary.

78-86 min The opportunities ahead

Emerging AEC tech roles and what AI can do for your role.

86-90 min Your next step

The weekend crash course, and how Artecon Learning BIM programs take you further.

ROLES

What AI can do for your role

BIM Engineer

Automate parameters, model audits and BIM quality checks

Architect

Design alternatives and briefs turned into area statements

Estimation / QS

Extract quantities from BOQs and compare vendor quotations

Planning Engineer

Spot delays early and automate planned vs actual reports

Site Engineer

WhatsApp updates, voice notes and photos into DPRs

QA/QC Engineer

Automate inspection reports and track NCRs and RFIs

Project Manager

AI dashboards and automated weekly and monthly reports

Procurement

Compare quotations and track delivery delays

Contracts & Commercial

Find key clauses, variations and claims in contracts

NEXT STEPS

The AEC AI Builder learning path

STAGE 1

Masterclass

90 minutes

Discover what is possible. Opportunities in AEC technology, AI in action and a first taste of building.

- Outcome: Register for the crash course

STAGE 2

Weekend crash course

2 days 7 hours

Build your first solution. A role-based mini project: a working prototype of your own, built hands-on with ChatGPT, Google Sheets, n8n or Make and Power BI.

- Outcome: See what you can build

STAGE 3

Artecon BIM course

60-180 days

Join an Artecon Learning BIM program. Go deeper with BIM Fundamentals, Intermediate or Picasso: live classes, real projects, mentoring and placement support.

- Outcome: Industry-ready BIM skills and a

NEXT STEP

Talk to the Artecon team

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