

Headline: <a href="#">Trading, quant professionals relying on AI for research, says report</a>	
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## Global Report Reveals AI Accelerates Quants - Skills Gaps Slow Them Down.

Mumbai, 1<sup>st</sup> December 2025:

AI has moved from a frontier experiment to an everyday tool in the quant workflow, according to QuantInsti's *State of Algorithmic Trading Education 2025* report, based on an online survey and live poll of a cross-section of over 13000 registrants from 160 countries. The report reveals that a growing number of quant and trading professionals across the world have started to rely on AI not just for speed, but for turning ideas into testable strategy code.

The report highlights that **76% of respondents increasingly rely on AI for early-stage research and code scaffolding**, particularly to convert rough logic or pseudocode into workable code, speeding up testing and prototyping. AI also assist with documentation and organizing experiments, easing teams tighten the early phases of their process.

At the same time, capability gaps persist. **54% of respondents cite skills or know-how as their biggest barrier**, followed by data readiness challenges, compute limitations, and internal approvals.

"AI is now embedded in how quants think, build, and iterate. But the shift has exposed an urgent need for deeper skills; not entry-level coding, but in responsible model building, leakage avoidance, and understanding failure modes," **said Nitesh Khandelwal, Co-Founder, QuantInsti.**" The question is no longer 'How do I start?' but 'How do I build better, faster, and safer?'"

Learning priorities reflect this shift. **Machine learning remains the most in-demand area for upskilling for 65% respondents**, followed by trade automation and high-alpha strategy development. Many respondents highlighted the need to sharpen capabilities in risk-aware modelling - including exposure management, position sizing and drawdown monitoring.

Despite AI-enabled efficiencies, **37% respondents reported struggling with strategy design and validation**. Participants also described issues such as leakage detection, selecting validation schemes that reflect live-market behaviour, and ensuring that research code carries over cleanly into testing and live deployment.

The online event organised by QuantInsti drew a diverse global audience, with India contributing 53% of registrants, followed by the Americas (17%), Europe (12%), Asia ex-India (9%), the Middle East & Africa (6%), and the remaining regions contributing 3%.

“AI speeds up the quant workflow, but it doesn’t replace the hard thinking. Models still depend on the creativity, intuition, and domain expertise of practitioners,” **added Mr. Khandelwal.** “What we see is not automation replacing people, but AI elevating those who know how to use it well.”

The report highlights that algorithmic trading education increasingly resembles ongoing professional development rather than a one-time entry path. Professionals blend fundamentals with applied, role-specific skills. They use AI tools to accelerate exploration, but also need stronger habits around validation, data preparation, and risk oversight.