AI in Software Engineering

From Strategy to Execution

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From Zero to AI. From AI to Impact.

AI Executing Work Is the Opportunity
Reliability Is the Constraint

What changed

Execution creates speed, scale, and leverage

AI now executes real workflows, not just assists humans

Reliability determines whether that leverage compounds or collapses

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The Demo to Production Gap
Capability is Everywhere
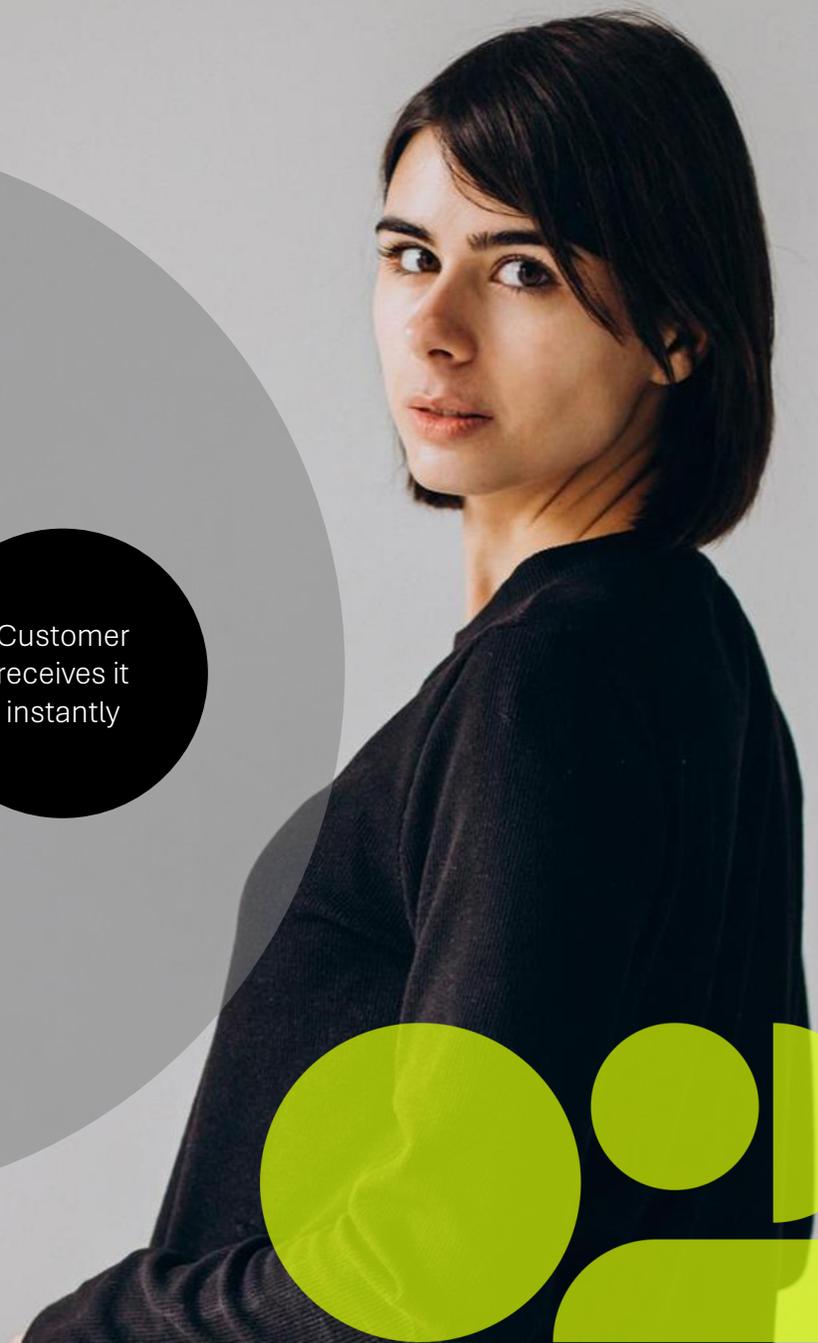
Production Trust is Not AI demos optimize for impressiveness

Production systems demand repeatability and control

Only **10 to 15 percent of AI pilots scale long term**

Source: Forrester

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Assistance vs Delegation
Very Different Risk Profiles

Assistance

- AI drafts a support reply
- Human reviews and sends
- Error cost is minutes

Delegation

- AI sends the reply automatically
- Customer receives it instantly
- Error cost is trust, churn, or escalation

The SMB Reality
Leading Adoption, Least Room for Error

89% of SMBs are AI active

Source: Intuit, 2026

Fewer buffers when things go wrong

Small teams rely on **automation to scale**

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The Abandonment Curve
High Adoption Does Not Mean Sustainability

40%

**of agentic initiatives projected
to be abandoned by 2027**

Source: Gartner

Primary reasons

Integration
complexity

Unclear
ownership

Weak ROI
visibility

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The Five AI System Decisions
Execution Requires Explicit Design Choices

What decisions are AI agents allowed to make

At what confidence level does it escalate?

What actions require dual confirmation?

Can I replay and audit its decisions?

What happens when the AI agent is uncertain?