AI-Assisted Engineering in the Era of Gen AI

KALANA WIJESEKARA
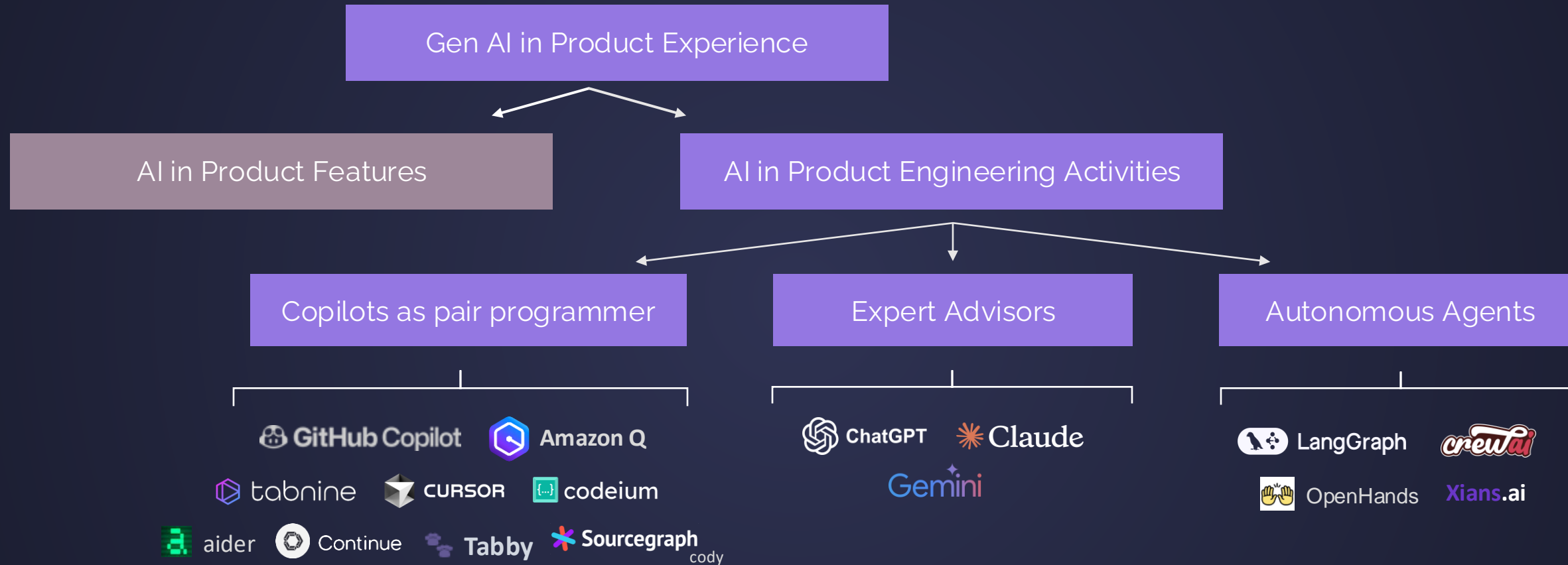
Chief Developer Experience Officer – 99x

Building great products takes
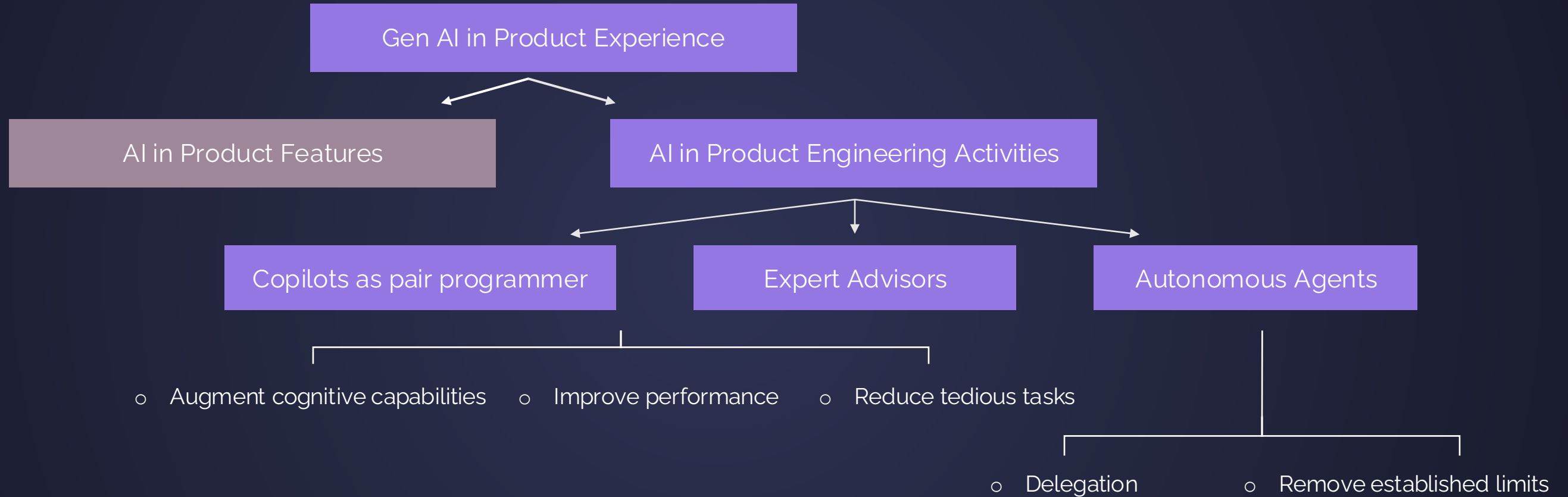# all your energy, that is humanly possible

Save energy by not doing things

Do things more efficiently

Be super human

Gen AI in Product Experience

AI in Product Features

AI in Product Engineering Activities

Copilots as pair programmer

Expert Advisors

Autonomous Agents

o Augment cognitive capabilities   o Improve performance   o Reduce tedious tasks

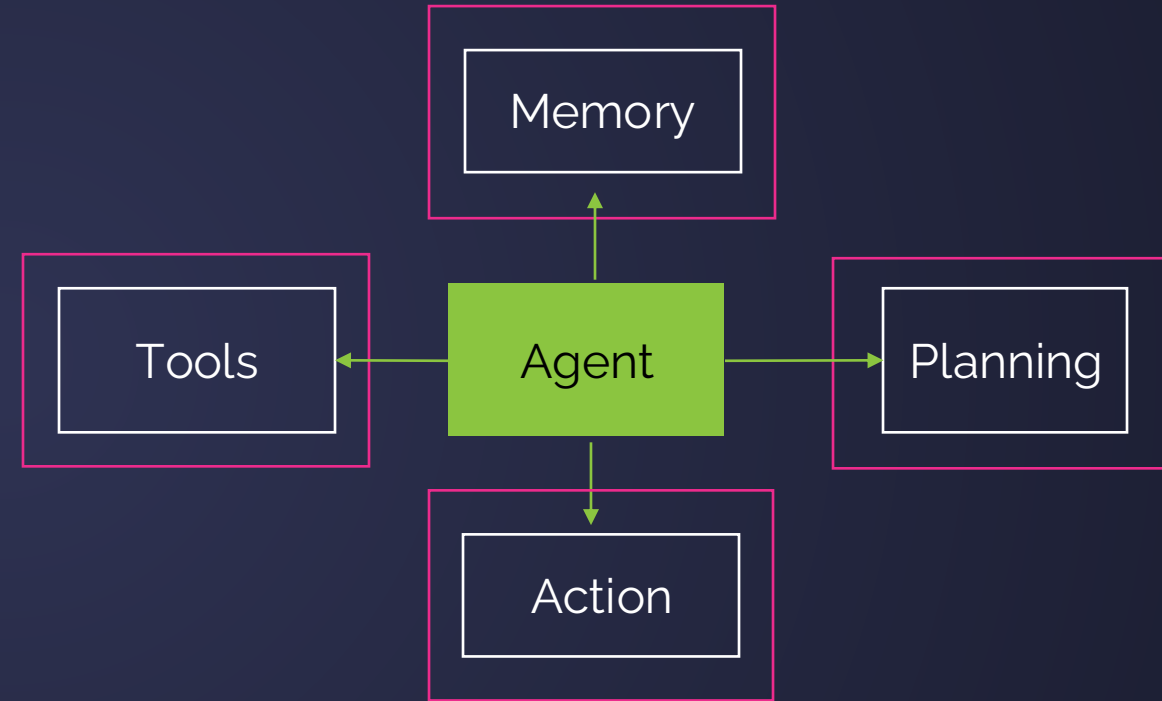o Delegation   o Remove established limits

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Agents

What can agents do?

How can agents help?

- Code reviews

- Developer Documentation

- User feedback and support ticket analysis

- Architectural Fitness Functions

How can agents help?

Architectural Fitness Functions

<u>Objective</u> functions that measure
how close we are to the desired standards
that we have set for a solution

Code Quality	Compliance
Resiliency	Security
Performance	...

How can agents help?

Observability

Resilience

Structured logging and log compliance

Log correlation and traceability

Exception handling contracts

Edge cases handling

Demo

One learning to make AI work

Copilots	Expert Advisors	Agents

Measure outputs and outcomes

Usage Distribution

○ Suggested ○ Accepted

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efficiently

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Thank you!

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