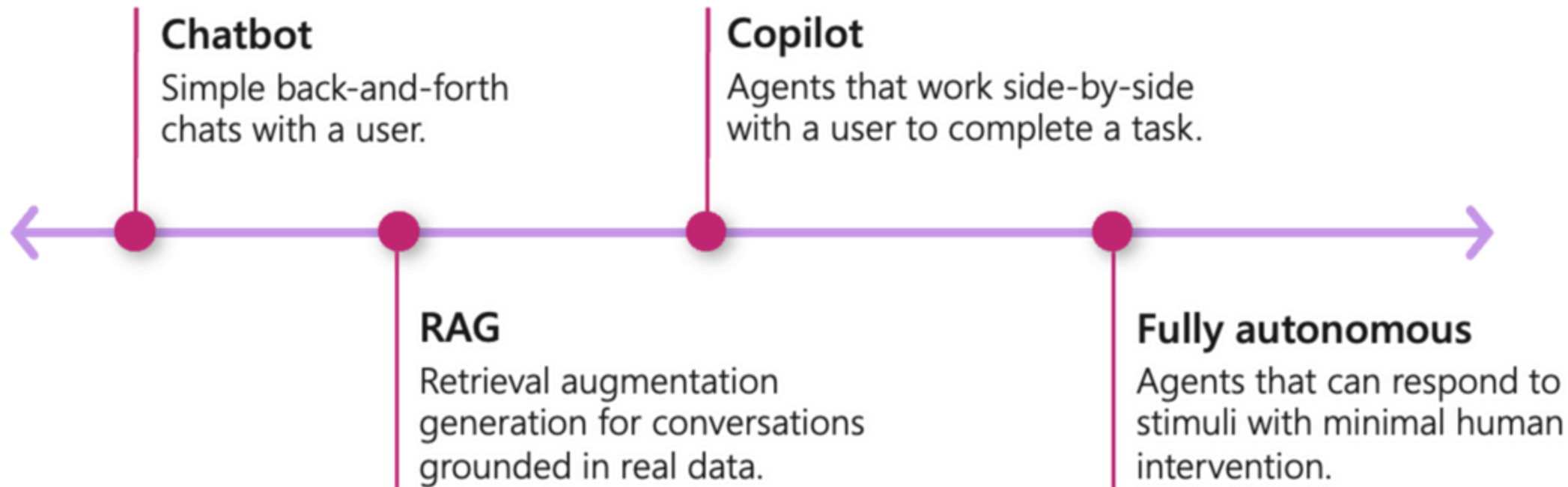# Transforming .NET Applications with Semantic Kernel

By Louëlla Creemers

Introduction
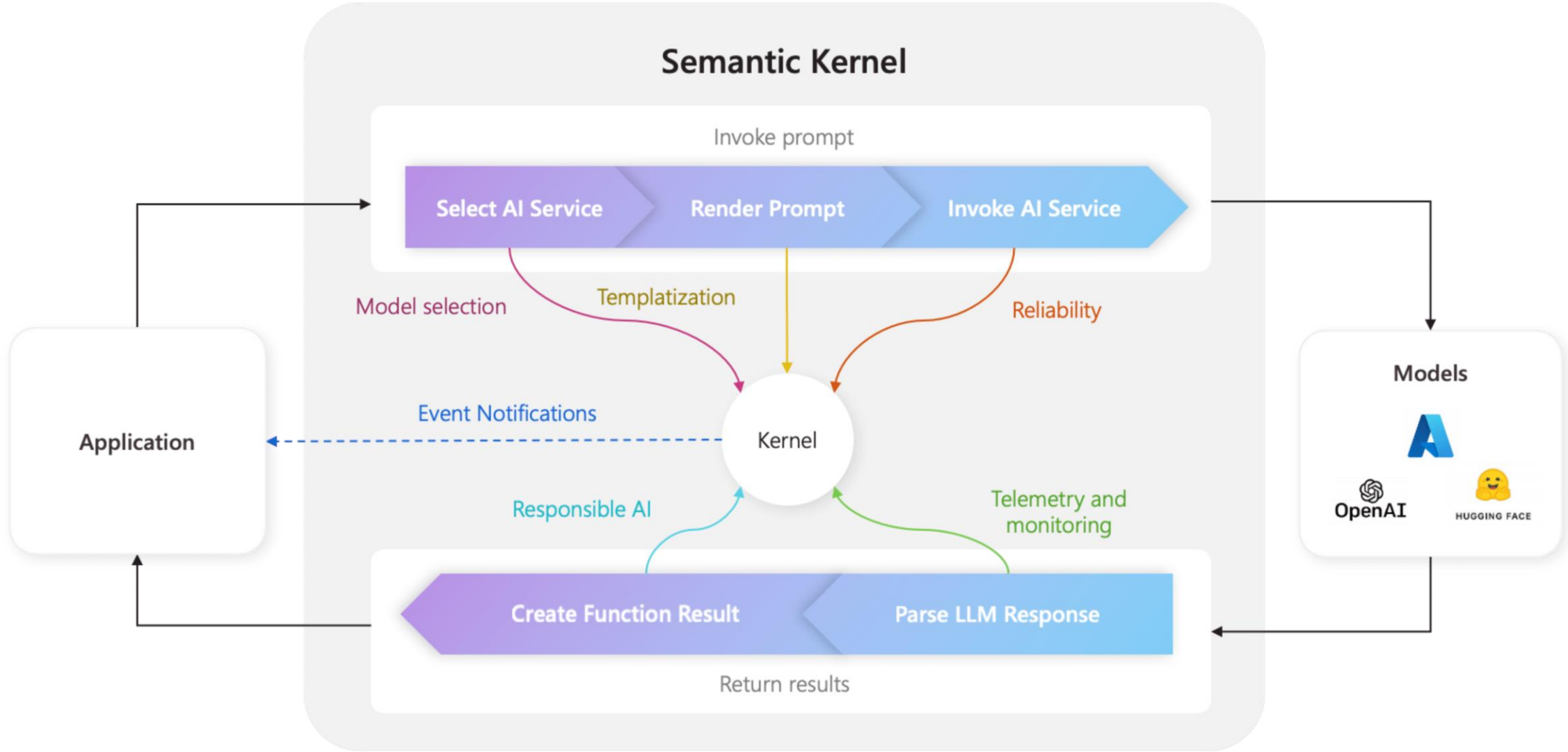
- Louëlla Creemers
- .NET Developer
- University Teacher
- Microsoft MVP – Developer Technologies

Chatbot
Simple back-and-forth chats with a user.

Copilot
Agents that work side-by-side with a user to complete a task.

RAG
Retrieval augmentation generation for conversations grounded in real data.

Fully autonomous
Agents that can respond to stimuli with minimal human intervention.

What is it?

- "Semantic Kernel is a lightweight, open-source development kit that lets you easily build AI agents and integrate the latest AI models into your C#, Python, or Java codebase. It serves as an efficient middleware that enables rapid delivery of enterprise-grade solutions."

No need to have a PhD!

"SK is like an ORM for AI"

Semantic Kernel vs. OpenAI SDK

What else

- Semantic Kernel Memories
- Semantic Vector Embeddings
- AutoGen

- Awesome Semantic Kernel
  - https://github.com/geffzhang/awesome-semantickernel

Thank you!

- bio.link/lovelacecoding