The Rise of the General Agents (Builder)

The Rise of the AI Agents and Agent Skills (Result)

Agent Factory: Building Digital Full-Time Equivalents (FTEs)

From Manual Coding to Spec-Driven Automation: Monetizing Knowledge through Agent-Building-Skills or Agent-Building-Agents

Version: 1.0

Zia Khan - MBA, MSE, MAC, MA, CPA, CMA

https://www.linkedin.com/in/ziaukhan/

https://www.facebook.com/ziakhan

Presentation NotebookLM: https://notebooklm.google.com/notebook/9a463eb6-90b4-4155-943f-bf60fc0696e8

Agent Factory Textbook: https://agentfactory.panaversity.org

The Rise of the Spec-Driven Dev (Builder)

The Rise of the Custom Agent SDKs (Result)

The Agent Factory Thesis

“In the AI era, the most valuable companies won’t sell software—they’ll manufacture AI employees, powered by agents, specs, skills, MCP, autonomy and cloud-native technologies”

The 2026 AI Commercial Playbook

Turning Your AI Expertise into Revenue

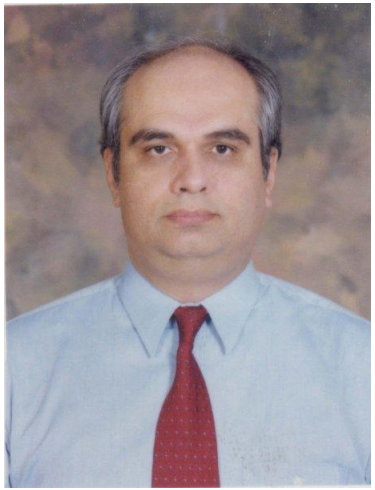
This presentation serves as the "Business Roadmap" for your future. It transitions from **technical feasibility to market execution**, showing the audience how to turn these new AI protocols (Agents, Agents Skills, MCP, SDKs) into digital employees for profitable business.

Start Building Your Digital Agent Factory Tonight

Once you understand this presentation, it positions you not just as an developer or educator, but as a strategic architect of the next phase of AI. We don't just teach people how to code; we are teaching them how to build and monetize Digital Agent Factories.

Zia Khan

Agentic AI Architect



Leadership

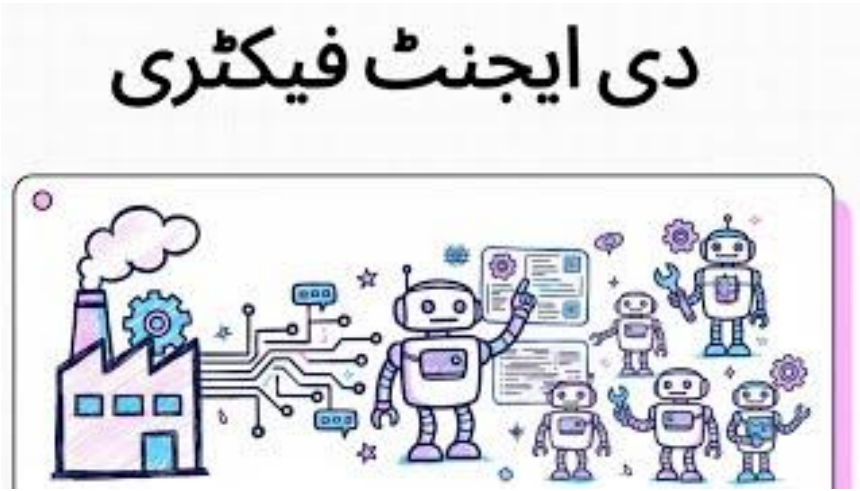
- CEO of Panaversity
- COO of PIAIC

Impact & Credentials

- Founding educational AI startups
- Trained hundreds of thousands of students and professionals
- MBA, MSE, MAC from Arizona State University (ASU)
- CMA and CPA credentials (USA)

Nation-transforming AI education leader

Video Overviews



ChatGPT Has Changed The World

Now Learn to Program in English or Urdu instead of Python or TypeScript

From User Interface to User Intent

The Age of Agentic AI is Here

From **Python/Java/TypeScript…** to **natural-language–first**

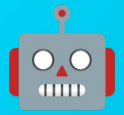
The shift from **developer-as-typist** to **developer-as-orchestrator**

The Future of Work: A Partnership

Three forces working together

People

Judgment, creativity, oversight



Agents

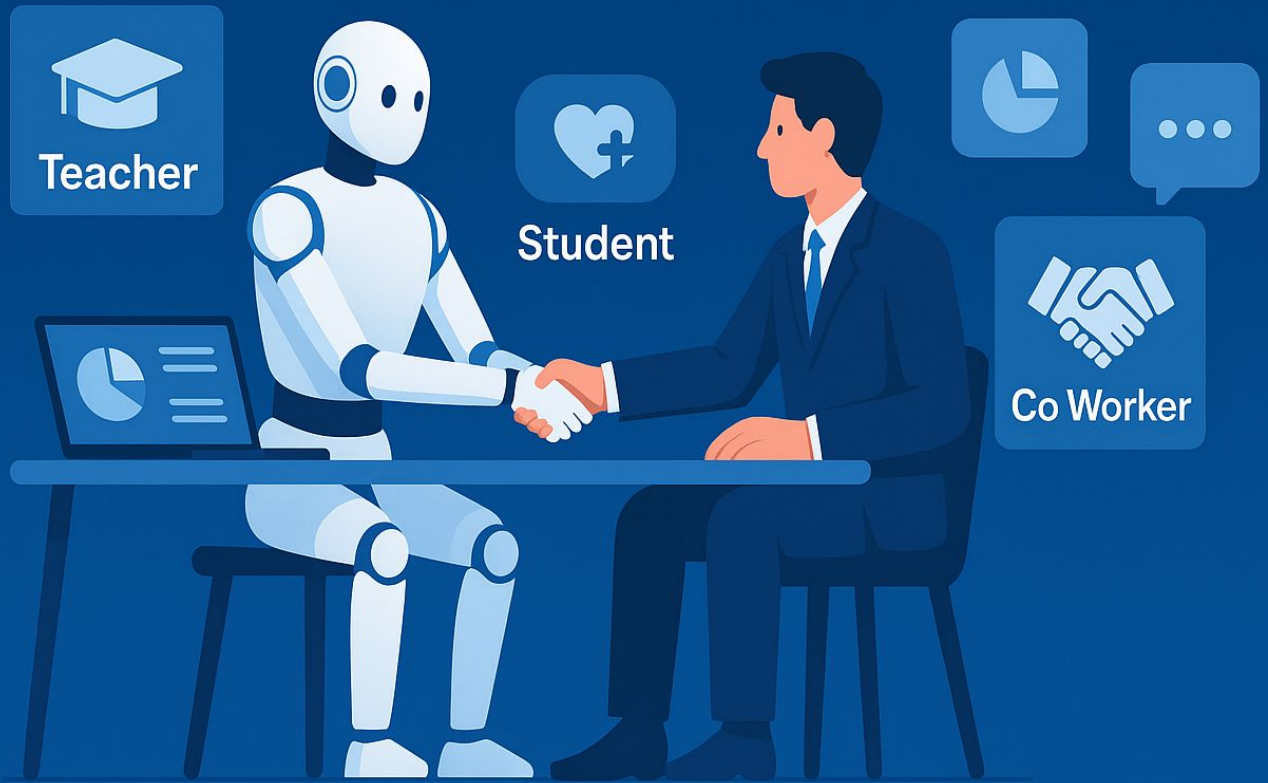
Digital work automation

Robots

Physical work automation

AI is my Teacher, my Student, my Co Worker

Together, we will do everything.



The Three Waves of AI

Predictive AI

Focus on analyzing data to predict outcomes.

Analyze past data to predict future outcomes.

Why It Mattered: Enabled data-driven decision-making.

Generative AI

Focus on creating content from data.

Creating content (text, images, code, videos).

Why It Mattered: Empowered creativity and productivity.

Agentic AI

Focus on autonomous actions and learning iteratively.

Autonomous actions, environment interaction, iterative learning.

Why It Matters: AI becomes proactive, managing complex tasks.

What is an AI Agent?

An AI agent is a piece of software that can pursue a goal by observing its environment, deciding what to do next, taking actions (often by calling tools/APIs or controlling a robot), and learning from the results—then repeating the loop until the goal is met.

What makes it an “agent” (not just a chatbot)?

Goal-driven: You give it an objective (“pull the Xero trial balance daily and export CSV”), not just a single prompt.

Tool use / actions: It can call functions, APIs, databases, browsers, or devices—not only generate text.

State & memory: It keeps context (short-term working state and longer-term memory) across steps.

Autonomy: It plans multi-step work, executes, checks results, and adjusts without you micromanaging.

The Next Leap in AI

Moving from understanding to action

Large Language Models

AI that responds

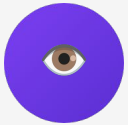
→

Large Action Models

AI that acts, orchestrates, and remembers

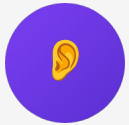
Autonomous Agents: The Five Powers

Systems that can see, hear, reason, act, and remember



See

Visual understanding



Hear

Audio processing

Reason

Complex decision-making

Act

Execute and orchestrate

Remember

Maintain context and learn

Redefining Everything

How agentic AI transforms our world

How We Work

AI agents as collaborative teammates

How We Transact

Autonomous systems managing complex transactions

How We Build

AI-first development from high-level intent

2025 Year of Agents

FEB

TODAY

ANTHROPIC

How We Build Effective Agents

Barry Zhang

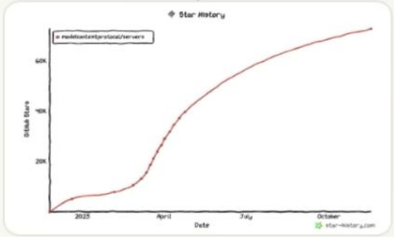
ANTHROPIC

Model Context Protocol

Integrating LLMs with your tools & data

Mahesh Murag

Model Context Protocol



Claude Agent SDK

CLAUDE SKILL

SKILL.md
scripts/
templates/
resources

Agentic AI Foundation

OpenAI Agents SDK