

SAMIR GENAI ACADEMY

PROFESSIONAL STUDY GUIDE SERIES

Phase 05 · Capstone & Deployment

25

Future of Agentic AI

Physical AI, agent economies, AGI timeline & roadmap

Module 25 of 25 · 1 hour

Instructor: **Samir Kumar** · Edition 2026

STUDY GUIDE

01 Overview

Physical AI, agent economies, AGI timeline & roadmap. This guide gives you the core theory, the tools that matter, a hands-on build, working code, and the pitfalls to avoid — everything you need to learn the topic to a professional standard and apply it in real projects.

1 hour

LESSON LENGTH

4 + 4

CONCEPTS + BUILD
STEPS

3

FRAMEWORKS & TOOLS

25/25

PHASE 05

02 Learning Objectives

- ▶ Survey emerging frontiers: physical AI, agent economies, and beyond.
- ▶ Reason critically about AGI timelines and uncertainty.
- ▶ Identify durable skills as the field evolves.
- ▶ Build a 90-day personal career roadmap.

03 Core Concepts

Physical AI & robotics

Foundation models are moving into the physical world — vision-language-action models that control robots and devices. The same agentic loop (perceive, reason, act) extends from software tools to actuators, opening manufacturing, logistics, and home robotics.

Agent economies

As agents transact, negotiate, and delegate to other agents, we get multi-agent economies with protocols for identity, payment, and trust. MCP and agent-to-agent standards are early infrastructure for this machine-to-machine layer.

AGI timelines — reason under uncertainty

Expert forecasts diverge widely. Treat timelines as probability distributions, not dates. Focus on robust strategy: capabilities that compound (judgement, systems design, evaluation) hold value regardless of when or whether AGI arrives.

Durable skills

Tools churn; principles endure. The lasting edge is problem framing, system architecture, evaluation, security, and the judgement to combine AI with human goals responsibly. Keep learning in public and building real projects.

04 Visual Diagram

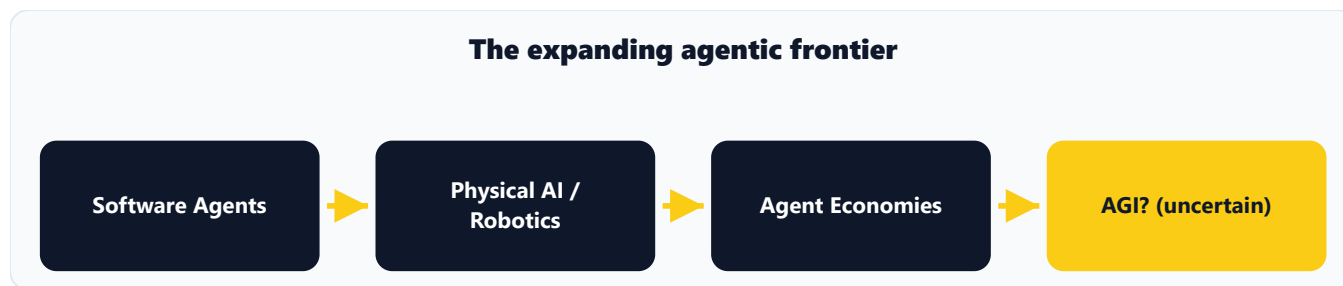


Figure 25 — The same perceive-reason-act loop is extending from software tools into the physical world and machine-to-machine economies.

05 Key Frameworks & Tools

Trend tracking

Personal learning system

Project portfolio

06 Hands-On Build

🔗 90-Day Personal Career Roadmap Strategy

1. Audit your current skills against the course's five phases.
2. Pick a target role/outcome and the 3 skills that most move it.
3. Plan one shippable project per month for 90 days.
4. Set a public-learning cadence (write/share weekly) and review checkpoints.

07 Code Walkthrough

A 90-day roadmap template

MARKDOWN

```
# 90-Day Agentic AI Roadmap

## Target
- Role/outcome: ____
- Top 3 skills to grow: ____, ____, ____

## Month 1 – Foundations project
- Ship: ____ | Demo by: ____
## Month 2 – Agentic project
- Ship: ____ | Demo by: ____
## Month 3 – Production + portfolio
- Ship: ____ | Publish writeup: ____

## Weekly: build in public, review metrics, adjust.
```

08 Lab Assistant

Lab 25 • Your 90-day roadmap

Prerequisites: The roadmap template (Module-25 code) • An honest skills audit

1. Score yourself against the five phases

Expected: Clear strengths and gaps

2. Pick a target outcome and 3 high-leverage skills

Expected: A focused plan, not a wish list

3. Commit to one shippable project per month

Expected: Three portfolio projects in 90 days

Troubleshooting

- Tool overwhelm → bet on compounding skills, not every new release.
- No progress → ship and write in public weekly.

09 Pitfalls & Key Takeaways

⚠ COMMON PITFALLS

- Chasing every new tool instead of compounding core skills.
- Treating AGI timelines as certainties.
- Consuming content without shipping projects.

✓ KEY TAKEAWAYS

- The agentic loop is extending into the physical world and agent economies.
- Hold timelines as distributions; bet on compounding skills.
- Ship projects and learn in public — that is the durable edge.

 **Companion video:** Watch the module 25 lesson in your Student Dashboard, then use this guide to revise, copy the code, and complete the build. Download both for offline study.

10 Further Resources

Frontier-lab research blogs • Agent protocol specs (MCP, A2A) • Your project portfolio