



SIN
SCHOOL OF AI



AI AGENT ENGINEERING WITH HERMES

Design, Build, Automate & Deploy Intelligent AI Agents

A PREMIUM COURSE BY SIN SCHOOL OF AI

From first prompt to a deployed, testable AI agent

PRACTICAL AGENT DESIGN • TOOLS • MEMORY • AUTOMATION • DEPLOYMENT

₹499

ONLINE • SELF-PACED



CODE

COURSE VISION

MEET THE HERMES AGENT

An AI agent is more than a chat window. It can interpret a goal, plan a route, use approved tools, act, and return evidence.

Think in workflows

Turn an open-ended request into a controlled sequence of decisions and actions.

Connect real tools

Work with APIs, files, services and structured data through defined interfaces.

Design for trust

Add permissions, review points, logs, testing and failure boundaries before deployment.

The objective is not a flashy demo. It is an agent whose behaviour you can explain, test and improve.

DESIGNED FOR PRACTICAL LEARNERS

WHO SHOULD JOIN?

Useful for learners who want to move from AI usage to structured agent building.

Students & freshers

Build portfolio evidence beyond prompt writing.

Developers

Add agent workflows, tools and deployment patterns.

Automation builders

Connect repeatable business processes to agents.

Freelancers

Prototype scoped assistants for client workflows.

Founders & teams

Understand where agents help—and where they do not.

Educators & researchers

Explore controlled assistants and knowledge workflows.

Basic comfort with computers is expected. Coding experience helps, but the course begins with foundations.

LEARNING PATHWAY 01

INTRODUCTION TO HERMES AGENT

Build the mental model, prepare the environment and launch a first controlled agent.

- 1 Foundations**
Agent, model, tool, prompt, context and execution loop.
- 2 Install & configure**
Prepare the local environment and inspect essential settings.
- 3 Connect a model**
Understand API configuration, credentials and safe handling.
- 4 Run the first agent**
Follow request → plan → execute → response, then review the result.

Setup

Model connection

First prompt

Execution loop

LEARNING PATHWAY 02

ADVANCED AGENT ENGINEERING

Give the agent useful capabilities while keeping its behaviour observable.

Tools

Connect approved actions such as code, files, web services and collaboration systems.

Memory & knowledge

Explore short-term context, durable memory, retrieval and RAG patterns.

Skills & MCP

Package reusable procedures and bridge agents to external systems through structured interfaces.

Automation

Design trigger → agent → tool → action workflows with checkpoints and logs.

Planning

Tool use

Custom skills

Memory

MCP

LEARNING PATHWAY 03

PRODUCTION DEPLOYMENT

Move a working local agent toward a service that can be checked, secured and maintained.

- 1 Provision the VPS**
Server access, SSH and basic firewall posture.
- 2 Containerise the service**
Package the runtime and required configuration.
- 3 Configure the gateway**
Route requests and protect credentials.
- 4 Deploy & verify**
Start services, run health checks and inspect logs.
- 5 Connect the client**
Validate end-to-end behaviour on intended devices.

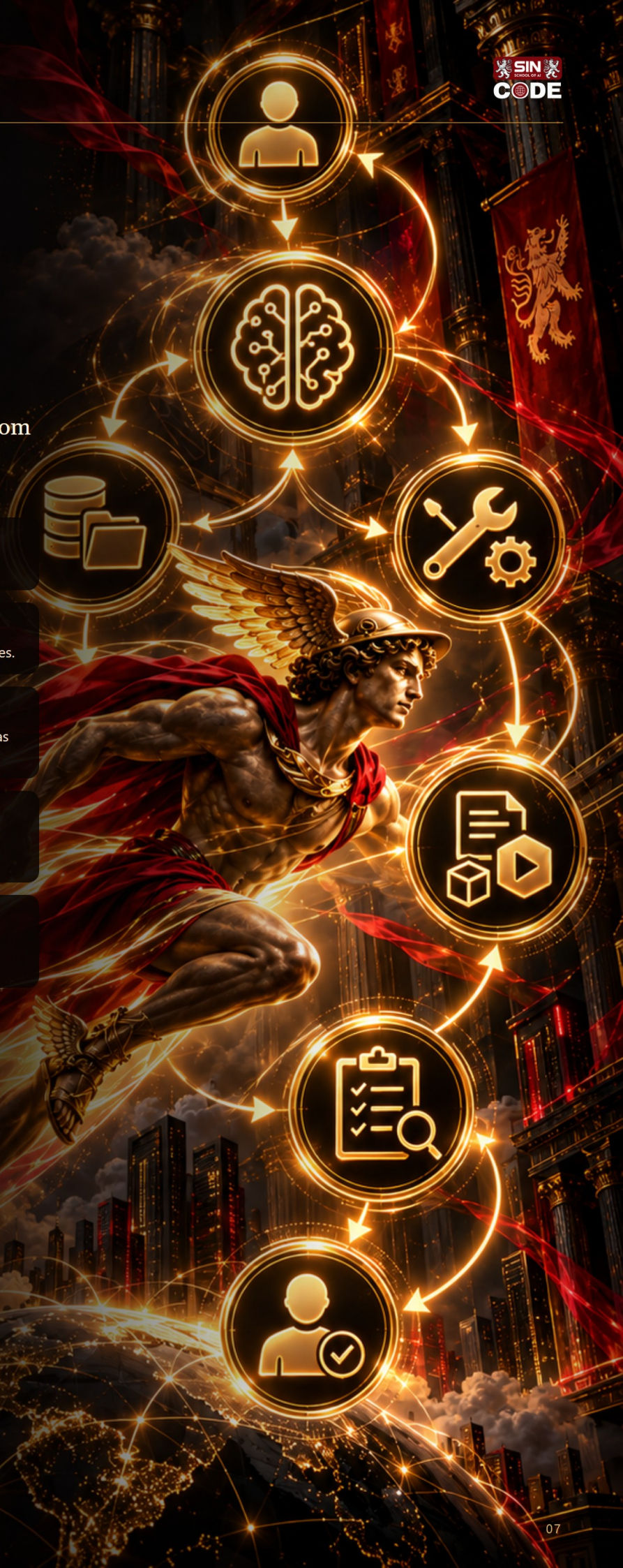
Deployment is complete only when the service is reachable, observable and tested—not merely “running.”

REFERENCE ARCHITECTURE

HOW A RELIABLE AGENT FLOWS

Every useful agent needs a visible path from intent to evidence.

- 1 Request**
Define the user goal, constraints and allowed scope.
- 2 Plan**
Break the goal into steps and select approved capabilities.
- 3 Retrieve & reason**
Use relevant memory or knowledge without treating it as unquestionable truth.
- 4 Act**
Call tools with bounded permissions and predictable inputs.
- 5 Verify**
Inspect output, logs and errors; require human review where risk is material.



PORTFOLIO DIRECTIONS

WHAT YOU CAN BUILD

Use the same engineering pattern across different, properly scoped problems.

Research agent

Collect, organise and cite approved sources.

Coding assistant

Plan changes, run tools and report verification.

Content operations

Prepare drafts through a review-first workflow.

Monitoring agent

Check signals and escalate meaningful changes.

Knowledge assistant

Retrieve from a bounded knowledge collection.

Client workflow

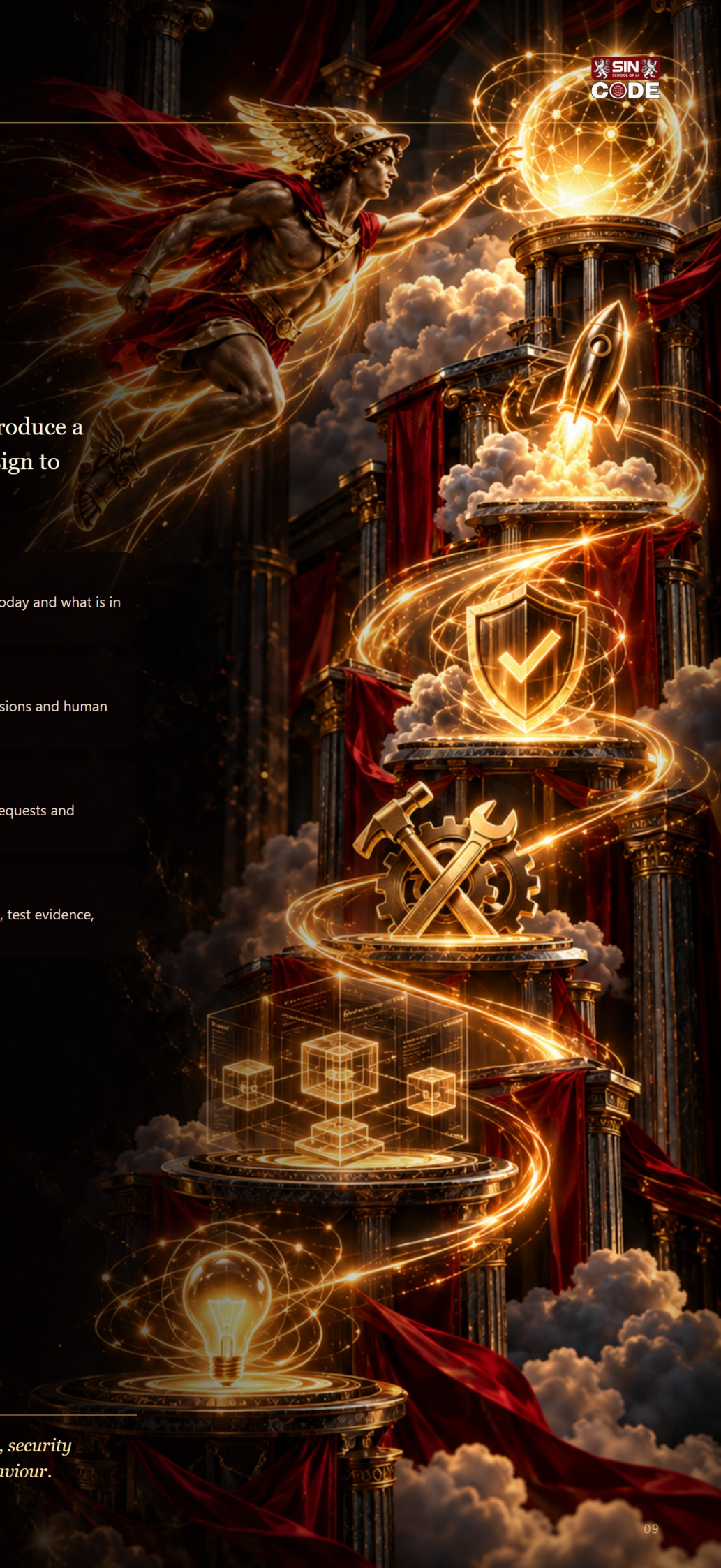
Prototype a narrow operational assistant.

A strong portfolio explains the problem, architecture, tests, limits and evidence—not just the interface.

FINAL CAPSTONE

BUILD ONE AGENT PROPERLY

Choose one real problem and produce a focused Hermes agent from design to verified deployment.

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- A Problem statement**
Who faces the problem, what happens today and what is in scope?
 - B Agent design**
Map instructions, tools, memory, permissions and human checkpoints.
 - C Build & test**
Test normal cases, failure cases, unsafe requests and recovery.
 - D Deploy & document**
Submit architecture, configuration notes, test evidence, logs and a short demo.

Assessment focuses on clarity, reliability, security awareness and evidence of working behaviour.

CAREER DIRECTIONS

WHERE THE SKILLS CAN LEAD

This course can strengthen a portfolio for junior and support-oriented AI roles; it does not guarantee employment.

Junior agent developer

Assist with agent logic, tools and testing.

AI automation assistant

Map repeatable workflows and integrations.

Technical operations

Support configuration, logs and maintenance.

Deployment support

Help package and verify hosted agent services.

Freelance prototyping

Build tightly scoped proofs of concept.

AI implementation support

Translate user needs into practical systems.

Actual eligibility depends on broader technical ability, project quality, communication, experience and employer requirements.

LEARNING ECOSYSTEM

BUILT UNDER THE SIN ECOSYSTEM

An applied AI course from SIN School of AI, delivered under the SIN Center of Online and Distance Education.

SIN School of AI

Practice-led learning focused on accessible, project-oriented AI education.

SIN Center of Online and Distance Education

Flexible digital access for learners who need location-independent study.

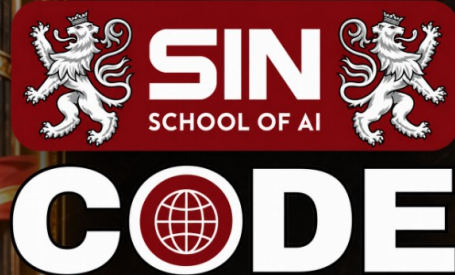
SIN Education and Technology Pvt. Ltd.

Company information supplied by the organisation states incorporation on 9 January 2024, with MSME and Startup India recognition.

Founder & CEO

Er. Harshvardhan Purohit. Supplied profile lists a BTU Gold Medal in B.Tech CSE (AI & ML), MBA in AI & ML, and PhD study in Computer Science in progress.

Institutional and founder details above are reproduced from supplied organisational profiles.





START BUILDING WITH PURPOSE

ENGINEER YOUR FIRST HERMES AGENT

Learn the foundations, connect tools and memory, build automations,
and understand the path to deployment.

₹499

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