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Sakana Fugu Training

2 days (14 hours)

Overview

Sakana Fugu is a multi-agent orchestration solution that enables the coordination of multiple state-of-the-art models via a single API, with dynamic selection logic and controlled performance and latency. This training helps you understand how to leverage a more robust, flexible AI architecture that is better suited to demanding business use cases.

Our Sakana Fugu training will enable you to go beyond simply using generative AI and master the principles of an orchestrated architecture designed for complex tasks and multi-step workflows.

You'll learn how to position Fugu and Fugu Ultra, understand model routing logic, structure reliable integrations, and balance response quality, cost, and responsiveness.

The training also addresses security, governance, compliance, and scalability challenges to help you design solutions that are truly usable in a professional environment.

By the end of the course, you'll be able to communicate effectively with technical and business teams, define a use case, and implement a more structured and efficient AI automation approach.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the principles of multi-agent orchestration as applied to Sakana Fugu.
- Be able to distinguish between the uses of Fugu and Fugu Ultra based on business constraints.
- Structure a use case with a single API logic and appropriate routing.
- Assess the impacts on performance, latency, and integration costs.
- Implement security and governance practices tailored to AI use cases.
- Prepare for a phased deployment to a production-ready environment.

Target Audience

- AI Developer
- Software Architect
- IT Project Manager
- Product Manager
- Data Engineer

Requirements

- Knowledge of the fundamentals of generative artificial intelligence and language models.
- Experience with an API-oriented development environment.
- Basic knowledge of Python, scripting, or technical automation.
- Understanding of security and data processing issues.
- Previous experience working on a software integration or AI project.

Technical Requirements

- A recent computer with sufficient memory to participate in AI and development workshops.
- A stable Wi-Fi or Ethernet internet connection.
- An up-to-date web browser to access interfaces and work resources.
- A development environment with Python 3.x and a suitable IDE, if required for the exercises.
- A microphone and headset for remote sessions, if the training is conducted via videoconference.

Sakana Fugu Training Program

[Day 1 - Morning]

Fundamentals of Orchestration

- Understanding the potential of Sakana Fugu in the context of AI automation.
- Identify the differences between a single model and multi-agent orchestration logic.
- Explore the concepts of model pools, coordination, and dynamic selection.
- Analyze expected business benefits, such as response quality and flexibility of use.
- Position Fugu within a production-oriented processing chain.
- Hands-on workshop: mapping a business use case and identifying the steps to be orchestrated.

[Day 1 - Afternoon]

APIs and Integration

- Explore how an API compatible with enterprise use cases works.
- Understand the role of automatic routing between multiple models.
- Structure a simple integration into an existing application workflow.
- Manage request parameters, responses, and common errors.
- Evaluate the impacts on latency and technical maintainability.
- Hands-on workshop: Design your first API call and test different input scenarios.

[Day 2 - Morning]

Model Selection and Quality

- Compare the use cases for Fugu and Fugu Ultra.
- Balance performance, cost, and processing depth.
- Understand how coordinating multiple agents improves the resolution of complex tasks.
- Define selection criteria based on the level of functional requirements.
- Anticipate the effects on quality, robustness, and service stability.
- Hands-on workshop: Selecting the right model for three contrasting use cases.

[Day 2 - Afternoon]

Governance and Scaling

- Address security, compliance, and usage control issues.
- Define governance rules to regulate access to models.
- Develop a phased and measurable deployment strategy.
- Identify key considerations for operation in a live environment.
- Develop an industrialization roadmap tailored to the organization.
- Hands-on workshop: Formalize a deployment plan that includes risks, safeguards, and metrics.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new advanced IT technology or to acquire specific business knowledge or modern methods.

Placement at the Start of Training

The assessment upon enrollment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also enables us to anticipate certain connection issues or

internal security issues within the company (in-house or virtual classroom) that could hinder the monitoring and smooth operation of the training session.

Teaching Methods

Hands-On Course: 60% Hands-On, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.