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Sign up

Training Tavily

3 days (21 hours)

Presentation

Our Tavily training course will enable you to develop high-performance applications using an API specially designed to integrate real-time web searches. This powerful tool, optimized for intelligent agents and language models, will help you design dynamic and innovative applications.

During this course, you'll learn all about the Tavily ecosystem, and its full range of functions: structured web search, content extraction and automated crawling.

Thanks to its native integration with frameworks such as LangChain and LlamaIndex, you can create advanced applications by combining language models (LLMs) with reliable, up-to-date web data sources.

At the end of this training course, you'll know how to design autonomous intelligent agents, optimize queries and integrate Tavily effectively into your AI projects.

As with all our training courses, this one will be presented with the latest version of [tavily](#).

Objectives

- Creating and deploying intelligent agents with Tavily
- Design and customization of chatbots integrating Tavily
- Creating a custom agent using Tavily APIs
- Understanding the Tavily ecosystem and its integration with LangChain and LlamaIndex

Target audience

- Data Scientist
- Big Data Engineer
- Machine Learning Engineer
- Lead Developer
- Developers

Prerequisites

- Application design basics
- Master the Python language
- Active Tavily account with operational API key

Our Tavily training program

Introduction to Tavily

- Definition, benefits and advantages
- Comparison with other APIs (Google, Bing, Perplexity)
- Applications: AI agents, academic research, competitive intelligence

Quick start & basic APIs Tavily

- Account creation, API keys management
- Dashboard: monitoring credit consumption and management
- Examples of simple requests
- Tavily Search API: structured web search
- Extract API: structured content retrieval
- Crawl API: automated web mapping

Tavily for AI integration (LangChain & LlamaIndex)

- Installation and configuration (langchain-tavily)
- Creating intelligent agents with Tavily
- Advanced techniques: Retrieval-Augmented Generation (RAG)
- Initial configuration and advanced integration
- Creation of enriched indexes to enhance LLM responses
- Case study: Business intelligence application

Practical application workshop

- creation of an autonomous chatbot combining LangChain and LlamaIndex with Tavily

Performance and cost management

- Techniques for reducing credit consumption
- Optimizing response times

Safety, compliance and best practices

- Privacy and RGPD management
- SOC2 certification and securing sensitive data

Production and scalability

- DevOps best practices for integration and deployment
- Monitoring and managing API calls
- Ensuring robustness and scalability

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.