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Sign up

Vercel and Vercel AI training

2 days (14 hours)

Presentation

Our Vercel AI training course will teach you how to rapidly create and deploy modern, high-performance applications powered by artificial intelligence. The strong point of the Vercel platform is the construction of conversational user interfaces with many continuous interactions.

Our program will teach you how to create applications and user interfaces using high-performance tools such as React (with Next.js), Svelte (with SvelteKit) and Vue (with Nuxt). You'll learn how to use the tool for all your development needs.

Our training course will teach you how to use a wide range of tools that will enable you to use LLM models for the front-end of your applications. You'll also learn how to secure your applications with Vercel AI's APIs and native tools.

Like all our training courses, it runs on the latest version of the tool: [Vercel 34](#) and [Vercel AI 3](#).

Objectives

- Understanding how Vercel AI works
- Creating generative UIs
- Frameworks integration
- Deploying and integrating your project

Target audience

- **Front-end developers**
- Web developers

Prerequisites

- Knowledge of JavaScript
- Knowledge of at least one framework supported by Vercel, such as next.js

OUR VERCEL AI TRAINING PROGRAM

Introduction to Vercel

- What is Vercel?
- The benefits of deployment with Vercel
- Tool structure
- Setting up a new project
- Deploying your application

INTRODUCTION TO VERCEL AI AND STREAMING

- Introducing Vercel AI and its main features
- The benefits of streaming in the context of AI
- Back-pressure and query cancellation
- Prompt Engineering techniques
- Caching responses for performance

GENERATIVE TOOLS AND USER INTERFACES

- Vercel AI generative user interface
- Streamable user interfaces
- AI state manipulation and interaction with AI models
- Practical exercises: using the "createAI" and "createStreamableUI" APIs
- Examples of "useAIState" and "useUIState" usage

FRAMEWORKS, ROUTERS AND GUIDES

- Vercel AI integration with frameworks (Next.js, Nuxt, and SvelteKit)
- Next.js routers for applications and pages
- Practical examples of setting up AI applications with Next.js and SvelteKit
- Using routers and dynamic routing
- Recommended practices for structuring AI applications

IA SERVICE PROVIDERS AND API REFERENCE

- AI service providers: AWS Bedrock, Anthropic, and OpenAI
- Use these suppliers' APIs to integrate AI functionalities

- Details of the "generateText", "streamText", "generateObject", and "streamObject" APIs
- Practical exercises on integrating and using supplier APIs
- Stream response management with "streamToResponse"

DEVELOPMENT FUNDAMENTALS WITH VERCEL AI

- Development on Vercel AI
- Using reactivity, loops and conditions
- CSS and frameworks such as Tailwind for AI projects
- Practical work on components, data binding and event propagation
- Advanced features: API Context, Blinds and Slots

PROJECT MANAGEMENT AND INTEGRATIONS

- Creating, configuring and managing a project on Vercel
- Configuration of environments, custom domains and integration with Git
- Security and compliance: understanding deployment hooks and security parameters
- Use of Vercel CLI and Vercel REST API for advanced integrations
- Management of integrations, permissions and compliance with standards such as SOC 2 and RGPD

Companies concerned

This training 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.