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Sign up

Training Developers: boost your performance with AI

2 days (14 hours)

Presentation

Our Generative AI & Productivity for Developers training course will teach you how to harness the full potential of artificial intelligence tools to accelerate, automate and secure your software development. Using a 100% hands-on approach, you'll learn how to take advantage of the best AI assistants on the market.

The course will familiarize you with the concrete uses of generative AI in your development environments. Code generation, documentation, unit testing, automated refactoring, assisted code review: you'll learn how to integrate AI into your workflow to save time while maintaining quality.

Learn to master the most powerful language models, and choose the right tools for your projects, security constraints and productivity objectives. You'll also learn how to customize wizard behaviors to suit your own coding and architecture rules.

As with all our training courses, the latest versions of the tools will be used.

Objectives

- Integrate artificial intelligence (AI) tools into their development workflow
- Automate certain development tasks using AI assistants
- Assess the risks associated with the use of generative AI (AI) in a secure development context
- Apply good cybersecurity practices when using AI tools (sensitive data, code confidentiality)

Target audience

- Developers
- CISOS
- Anyone in charge of IS projects

Prerequisites

- Basic knowledge of programming and application design

OUR DEVELOPER TRAINING PROGRAM : boost your performance with AI

[Day 1 - Morning]

Overview of generative AI in development

- Understanding the different types of generative AI: LLM, multimodality, agents
- Overview of tools on the market: IDE (GitHub Copilot) vs Code Agent CLI (Claude Code) vs ChatGPT
- Why not use ChatGPT as a developer?
- Explaining Vibe Coding with LLMs
- Cloud vs. local: security, performance, connectivity
- Integrating LLMs into modern IDEs (VSCode, JetBrains Junie...)
- Practical workshop: Customizing your IDE with several AI assistants.

[Day 1 - Afternoon]

Vibe Coding: coding with AI

- Introduction to Vibe Coding (layout, code, debugging, UI, SQL)
- Generating simple snippets with AI
- Proofreading and improving generated code
- Learning through experimentation
- Practical workshop: Coding a small application using Vibe Coding.

AI in the developer's everyday life

- The concept of AI Pair Programming
- Bug detection and correction with AI (SonarQube, ZAP, LLMs)
- Automated code review and intelligent suggestions
- AI agents: autonomous automation of complex tasks
- Assisted code base search and commit generation
- Productivity measurement and tracking of effective prompts
- UI creation with AI tools (UX Pilot, Wireframe Designer)

- Practical workshop: Automating a repetitive task with an AI agent.

[Day 2 after 2 weeks of intersession - Morning]

Security and Confidentiality with AI

- Understanding the risks associated with AI: data leakage, hallucinations and dangerous code
- Good security practices with LLM: Anonymizing sensitive data, security before code execution
- Cloud LLM vs. Local LLM, advantages and disadvantages of local LLMs
- Securing the use of AI in the dev cycle: developer education, secure integration, internal controls
- A look back at the publication of the Docker Image and the confidentiality of corporate data
- Practical workshop: Securing an AI workflow on a sensitive SQL query.

[Day 2 - Afternoon]

Ethics, RGPD and responsible use

- Ownership of generated code: rights, licenses and auditability
- RGPD impact: traceability, personal data, retention
- Understanding and limiting algorithmic bias in development
- Integrating ethics into the technical governance of an AI project
- Practical workshop: Review of a user-story integrating AI (risks & remediation).

Building a secure and responsible AI workflow

- Defining a productive and secure framework for working with AI
- Draw up an internal AI usage charter for developers
- Tools for monitoring usage and compliance with internal rules
- Understanding ISO/IEC standards (27034, 23894) in the dev cycle
- Practical workshop: Creating an AI charter of good conduct for a dev team.

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 enrolment is confirmed, 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 forthcoming course, 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) that could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 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.

Certification

A certificate will be awarded to each trainee who has completed the entire course.