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Sign up

Vibe Coding training

2 days (14 hours)

Presentation

Our Vibe Coding training course will enable you to discover and master this innovative approach to AI-assisted development. You'll learn how to interact with language models to generate code, build functional applications and transform the way you program.

You'll start with the basics: how LLMs work, prompting principles, and must-have tools like ChatGPT or GitHub Copilot. You'll then be guided through structuring your requests to the AI and reading the generated code.

You'll learn how to write effective prompts, iterate on partial results, and correct or refine code proposed by the AI. Each module will give you a progressive and concrete mastery of this conversational programming method.

You'll also be able to design complete projects: website, automation script or lightweight API. You'll discover how to test, document and organize your projects, even without in-depth development experience.

As with all our training courses, this one will be presented with the latest Vibe Coding .updates

Objectives

- Understand the principles of Vibe Coding and the role of language models in code generation
- Identify the use cases best suited to AI-assisted development, and structure your projects effectively. prompt
- Master Vibe Coding tools (ChatGPT, GitHub Copilot, Cursor, etc.) in a productive working environment.

- Generate, test and refine code in interaction with an LLM, even without in-depth technical expertise
- Design complete projects (scripts, APIs, web interfaces) using an iterative method AI-driven
- Detect the limitations of generated code and apply good validation, security and proofreading practices
- Integrate Vibe Coding into a professional workflow, combining versioning and documentation and testing
- Adopt a critical stance towards AI and acquire the necessary reflexes for responsible, sustainable use.

Target audience

- Developer
- AI Developer
- project manager

Prerequisites

- an affinity with simple codes

Vibe Coding Training Program

Introduction to Vibe Coding

- natural language prompt programming
- Origin of the term (Andrej Karpathy, 2025)
- Differences from conventional programming
- Accessibility for non-coders
- Rapid prototyping
- Creativity enhanced by AI
- Case studies: personal projects, prototypes, scripts
- Cases to avoid: critical applications, security, high performance

The fundamentals of generative AI

- Basic operation of an LLM
- LLM limitations (hallucinations, bugs, lack of context)
- Examples of popular models (GPT, Claude, Gemini)
- The structure of natural language
- The role of implicit and explicit instructions
- Examples of well-formulated prompts
- ChatGPT, GitHub Copilot, Cursor IDE, Replit Ghostwriter
- Advantages/disadvantages of each tool
- Preparing the working environment

How to write good prompts

- language, library, style
- Specific constraints (perf, compatibility, readability)
- Multi-stage prompting (multi-tour)
- Prompting with incremental feedback
- Using code snippets as context
- Generate a custom sort function
- Creating a simple web page
- Building a small CLI tool in Python

From prompt to working prototype

- Break down requirements into functionalities
- Create a roadmap in the form of prompts
- Identify critical components
- Kick-starting generation with AI
- Read and understand (even approximately) the generated code
- Rapid testing (simple unit tests, manual tests)
- Identifying errors
- Targeted re-formulation of prompts
- Keep history to understand evolution

From prompt to working prototype

- Defining natural language requirements
- Frontend generation (HTML/CSS/JS or React)
- Backend generation (API with Express, Flask, etc.)
- Problem: "Organize my files automatically".
- Prompt + Python script generation
- Add logs, CLI options, OS compatibility
- File and code organization
- How to "influence" AI towards quality patterns
- Automatic documentation via AI

Limits, risks and best practices

- Accepting code you don't understand
- Security holes, silent errors
- Difficulty maintaining generated code
- When logic is too complex for AI alone
- The importance of understanding what the code does
- The developer's role: supervisor, not spectator
- Always test what is generated
- Add comments for future understanding
- Use automatic linters and tests

Towards a Vibe Coding Pro workflow

- Hybrid use with VS Code / traditional IDEs

- Working with AI: human-machine collaboration
- How to integrate Git into an IA-driven logic
- Managing AI + human change effectively
- Current limits to maintainability
- Anticipate tool evolution (AutoDev, AI agents, etc.)

Final workshop - Create your own Vibe project

- Mini-site, game, API, browser extension, etc.
- Objectives, features, constraints
- Generation, testing, enhancement, documentation
- Summary of the process, what you learned, limits encountered

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.