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# AI-Assisted Programming



Instructors: Stanislav Fedotov +1 more

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- ✓ Prompting techniques: Learn to interact with LLMs and adjust settings for better results in development and everyday tasks.
- ✓ AI development tools: Explore AI tools from chatbots to in-IDE assistants and learn to pick the right ones for your tasks.
- ✓ Agents for software development: Discover how AI agents work and how you can leverage them.

**Skills you'll gain**[Software Development Tools](#) [Generative AI](#) [Artificial Intelligence](#) [IntelliJ IDEA](#) [AI Product Strategy](#)[Agentic systems](#) [Integrated Development Environments](#) [Generative AI Agents](#) [View all skills](#)**Details to know****Shareable certificate**

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**Assessments**

4 assignments

**Taught in English****4 languages available**

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**There are 6 modules in this course**

The course is co-created by JetBrains Academy and Nebius. At JetBrains Academy, we know what it takes to teach programming effectively. Meanwhile, Nebius possesses deep domain knowledge in applied AI – helping developers, data scientists, and enterprises implement AI in real-world scenarios.

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## AI Development Tools Overview

Module 1 • 1 hour to complete

[Module details ^](#)

### What's included

4 videos 1 reading 1 assignment

[Hide info about module content ^](#)

4 videos • Total 38 minutes

Chatbots • 11 minutes

IDE Assistants • 9 minutes

Bootstrappers • 7 minutes

AI Agents • 10 minutes

1 reading • Total 10 minutes

Conclusion • 10 minutes

1 assignment • Total 30 minutes

Check yourself • 30 minutes

## Instructors



**Stanislav Fedotov**

JetBrains

1 Course • 352 learners



**Aleksandr Avdiushenko**

JetBrains

1 Course • 352 learners

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## Coding with AI Assistant

Module 2 • 59 minutes to complete

[Module details ^](#)

### What's included

3 videos 3 readings

[Hide info about module content ^](#)

3 videos • Total 29 minutes

The Evolution of Programming and AI Tools • 4 minutes

JetBrains AI Assistant in Action • 5 minutes

Best Practices for AI-Assisted Coding • 18 minutes

3 readings • Total 30 minutes

The Evolution of Programming and AI Tools • 10 minutes

Coding with an AI Assistant • 10 minutes

Conclusion • 10 minutes

## Prompting Techniques

Module 3 • 2 hours to complete

[Module details ^](#)

### What's included

7 videos 8 readings 1 assignment

[Hide info about module content ^](#)

7 videos • Total 51 minutes

Introduction to Prompt Engineering • 8 minutes

Choosing the Right LLM for Your Task • 8 minutes

Generation Control Key Parameters • 8 minutes

Zero-Shot and Few-Shot Prompting • 8 minutes

Chain-of-Thought Prompting • 5 minutes

Problem Decomposition Prompting (Chaining) • 6 minutes

Reason and Act (ReAct) Prompting • 5 minutes

**8 readings • Total 80 minutes**

Introduction to Prompt Engineering • 10 minutes

Choosing the Right LLM for Your Task • 10 minutes

Generation Control Key Parameters • 10 minutes

Zero-Shot and Few-Shot Prompting • 10 minutes

Chain-of-Thought Prompting • 10 minutes

Problem Decomposition Prompting (Chaining) • 10 minutes

Reason and Act (ReAct) Prompting • 10 minutes

Conclusion • 10 minutes

**1 assignment • Total 30 minutes**

Check yourself • 30 minutes

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## AI Agents as a Development Team

[Module details ^](#)

Module 4 • 2 hours to complete

**What's included**

3 videos   4 readings   1 assignment

[Hide info about module content ^](#)

**3 videos • Total 53 minutes**

Agents as Multipliers for LLM Capabilities • 20 minutes

How to Maximize Value from Agents • 14 minutes

Challenges on the Road to the Next Frontier • 19 minutes

**4 readings • Total 40 minutes**

Agents as Multipliers of LLM Capabilities • 10 minutes

How to Maximize Value from Agents • 10 minutes

Challenges on the Road to the Next Frontier • 10 minutes

Conclusion • 10 minutes

**1 assignment • Total 30 minutes**

Check yourself • 30 minutes

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## Agents for Software Development

[Module details ^](#)

Module 5 • 1 hour to complete

**What's included**

3 videos   4 readings   1 assignment

[Hide info about module content ^](#)

**3 videos • Total 41 minutes**

Software Development Agents in Action • 19 minutes

How Agents Work • 8 minutes

Agent Evaluation and Safety • 13 minutes

**4 readings • Total 40 minutes**

Software Development Agents in Action • 10 minutes

How Agents Work • 10 minutes

Agent Evaluation and Safety • 10 minutes

Conclusion • 10 minutes

1 assignment • Total 30 minutes

Check yourself • 30 minutes

## AI-Supported YouTube Learning Platform

[Module details ^](#)

Module 6 • 14 hours to complete

### What's included

1 video    1 reading    14 app items

[Hide info about module content ^](#)

1 video • Total 1 minute

Install JetBrains Toolbox and IDE • 1 minute

1 reading • Total 5 minutes

What's Next • 5 minutes

14 app items • Total 840 minutes

Spec Generation • 60 minutes

YouTube Video Player • 60 minutes

Video2Transcript • 60 minutes

Transcriber • 60 minutes

Create Modules • 60 minutes

Add Modules • 60 minutes

Quizzes Generator • 60 minutes

Tests Generation • 60 minutes

CICD • 60 minutes

Get Ready for Your Project • 60 minutes

Project Structure • 60 minutes

Add Quizzes • 60 minutes

Planning • 60 minutes

Docker Locally • 60 minutes

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**AI for Efficient Programming: Harnessing the Power of LLMs**

Fred Hutchinson Cancer Center

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**AI-Powered Development with Codepal: Write & Test To-Do App**

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**Advanced GenAI Development Practices**

SkillUp

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**Introduction to AI Tools for Coders and Programmers**

Packt

Course

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Data Analytics	Google IT Support Certificate	Data Science	High-Income Skills to Learn
Digital Marketing	Google Project Management Certificate	Education & Teaching	How Does Cryptocurrency Work?
English Speaking	Google UX Design Certificate	Engineering	How to Highlight Duplicates in Google Sheets
Generative AI (GenAI)	IBM Data Analyst Certificate	Finance	How to Learn Artificial Intelligence
Microsoft Excel	IBM Data Science Certificate	Healthcare	Popular Cybersecurity Certifications
Microsoft Power BI	Machine Learning Certificate	Human Resources (HR)	Preparing for the PMP Certification
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