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AI-Assisted Programming

Instructors: [Stanislav Fedotov](#) +1 more

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6 modules
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What you'll learn

- ✓

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
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Details to know

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4 assignments

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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

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

Instructors



[Stanislav Fedotov](#)

JetBrains

1 Course • 352 learners



[Aleksandr Avdiushenko](#)

JetBrains

1 Course • 352 learners

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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

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

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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 Fred Hutchinson Cancer Center

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 Coursera

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Jennifer J.
Learner since 2020

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Larry W.
Learner since 2021

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Chaitanya A.


"Learning isn't just about being better at your job: it's so much more than that. Coursera allows me to learn without limits."

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🔗

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Data Analytics

Digital Marketing

English Speaking

Generative AI (GenAI)

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Microsoft Power BI

Project Management

Python

Google Data Analytics Certificate

Google IT Support Certificate

Google Project Management Certificate

Google UX Design Certificate

IBM Data Analyst Certificate

IBM Data Science Certificate

Machine Learning Certificate

Microsoft Power BI Data Analyst Certificate

UI / UX Design Certificate

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Data Science

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Finance

Healthcare

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Information Technology (IT)

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