

AI Automation

Program

4 Months

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About the program

The AI Automation Program is a hands-on, 7-sprint program designed to equip professionals with the skills needed to implement and manage AI solutions in real business environments—no prior technical background required.

What you'll learn

You'll start by learning the foundations of prompt engineering and comparing leading AI tools like ChatGPT, Claude, and Gemini. As you progress, you'll dive into the inner workings of Large Language Models (LLMs), build AI-powered apps and chatbots using no-code platforms, and master AI-driven automation through tools like Zapier and HubSpot.

The program also covers advanced AI applications, including building intelligent agents and generating multimedia content, while addressing ethical implications of AI in the workplace.

Learn to build, integrate, and optimize AI solutions

You'll gain technical experience integrating AI systems using WebHooks, APIs, and data pipelines, and learn how to monitor and optimize performance in production environments. Each sprint includes a practical project where you'll apply what you've learned to real-world business cases.

The program concludes with a capstone project where you'll design, build, and present a full AI solution to solve a complex business challenge, showcasing your new capabilities as an AI Automation specialist.

Career-focused lessons

Our ultimate goal is to help you become a successful AI Automation Specialist.

That's why this program also features externships for students to gain hands-on experience in various roles.

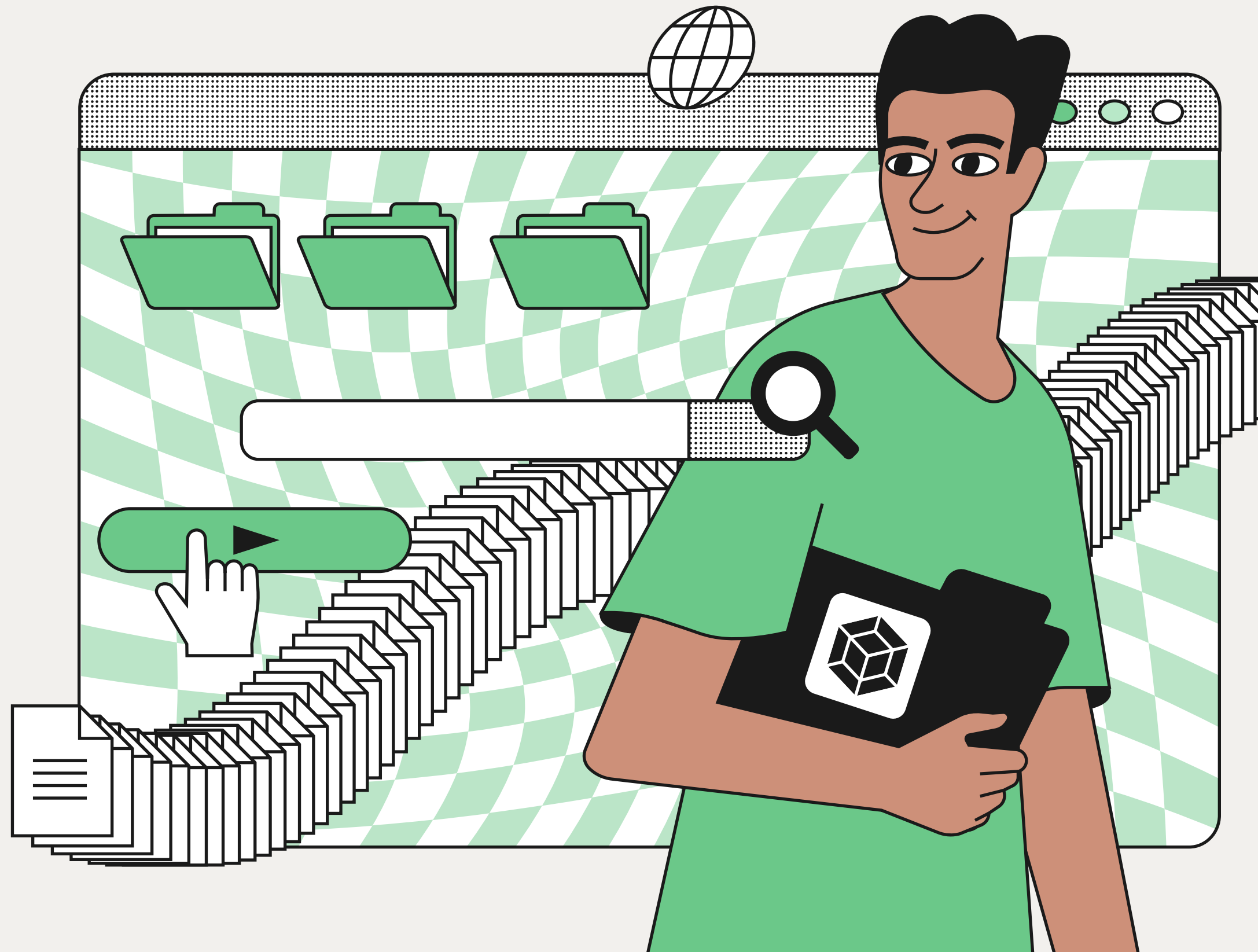
The bootcamp also includes a Career Prep Course to help students prepare for life after graduation, including creating a resume, LinkedIn profile, and GitHub account, improving networking and interview skills, and providing career coaching to help find a job.

Course structure

Your journey will be structured as a series of sprints, grouped into thematic modules. Each sprint will have a particular set of learning outcomes, reinforced through quizzes and tasks.

We provide rough time estimates but recommend spending around 15–20 hours per week studying. Everyone learns at different paces, so feel free to go at your own speed.

After completing the program and obtaining the AI Automation certification, you will be ready to begin the job search as a certified AI Automation specialist.





Sprint 1. AI Tools and Prompt Engineering

This sprint lays the foundation for understanding AI's capabilities and business impact. You'll compare different AI tools, learn the fundamentals of prompt engineering, and apply best practices to optimize AI-generated results. By the end of the sprint, you'll be able to solve real-world business cases using effective prompt strategies.

Tools
ChatGPT, Claude, Gemini, DeepSeek, Le Chat, Nebius AI Studio (basic functionality)

Project description
Implement a business case using prompt engineering to solve an industry-specific challenge.

2 weeks



Sprint 2. Understanding LLMs and Building AI-Powered Applications

In this sprint, you'll explore the potential and limitations of Large Language Models (LLMs) and learn to fine-tune their outputs. You will also develop basic AI-powered applications and chatbots using no-code platforms. By the end, you'll design and build a functional AI-powered application for practical use.

Tools
Nebius AI Studio (advanced functionality), zero-code app builder supporting LLM integration

Project description
Build an AI-powered chatbot or application for a real-world scenario.

2 weeks



Sprint 3. AI-Driven Automation

This sprint focuses on operational efficiency through automation. You’ll learn how to design AI-powered workflows and analyze case studies from different industries. A hands-on project will guide you through creating a complete automation solution for a business process.

Tools
Zapier, HubSpot

Project description
Develop an AI-driven automation solution for streamlining a business operation.

2 weeks



Sprint 4. Advanced Applications of AI

Explore advanced AI concepts, including AI bots and agents for decision-making and task automation. You’ll also dive into AI-generated multimedia content and address ethical considerations in AI usage. By the end, you’ll create an AI agent tailored for a specific business task.

Tools
Text-to-Image models in Nebius AI Studio

Project
Develop an AI agent to perform a business-specific automation task.

2 weeks



Sprint 5. Technical Integrations: Data, WebHooks, and APIs

This sprint focuses on integrating AI solutions into existing systems using data pipelines, WebHooks, and APIs. You’ll gain hands-on experience automating data processes and setting up event-triggered actions for seamless system connectivity.

Tools
APIs, WebHooks, Automated Data Processing Tools

Project
Create an integrated AI solution that connects with existing business systems.

2 weeks



Sprint 6. Development Pipelines and Solution Optimization

You’ll apply AI solutions in highly technical environments with a focus on efficiency and error handling. Learn how to monitor and optimize AI applications, set up performance dashboards, and handle disruptions elegantly.

Tools
GitHub Copilot, Automated Code Review Tools, Performance Dashboards

Project
Develop an optimized AI solution for a complex technical workflow.

2 weeks

Final project



Sprint 7. Capstone Project

In the final sprint, you'll apply everything you've learned to solve a real-world business problem. From identifying challenges to developing and presenting a working prototype, this capstone project will be a comprehensive demonstration of your AI skills.

Tools
All previously used tools

Project
Design, implement, and present a complete AI solution to address a real business challenge.

2 week



Career Preparation

🚩 From day one

Access career-focused lessons that strengthen both:

- **Hard skills:** for job applications
- **Soft skills:** networking, communication, self-promotion and interview techniques

✍️ Midway through

Partner with a career coach to:

- Develop a personalized job search strategy
- Perfect your resume, LinkedIn profile, and portfolio
- Practice interview & networking techniques in group and individual sessions

👉 As you progress

- Participate in Code Jams—team competitions to apply your skills
- Complete an Externship—gain real-world business experience (you'll learn more as you advance!)

📁 After graduation

Enter the job search phase with support from a Placement Coordinator:

- Regular check-ins to keep you on track
- Feedback to improve applications and networking
- Help connecting with recruiters and hiring managers
- AI-powered job search platform to manage applications and track progress

Learn  the job.
✦ Get the job. ✦