

n8n AI-Powered Workflow Automation & Agent Development Training

Duration: 2 Days

Description

This training is designed for teams that aim not only to automate their business processes but also to transform them into intelligent, AI-powered systems. Using the open-source automation platform n8n, participants will learn how to build end-to-end automation scenarios, manage APIs, develop AI agents, and integrate data across multiple systems through hands-on practice.

Throughout the program, participants will gain practical experience in integrating AI models such as ChatGPT, Claude, Gemini, and DeepSeek, managing AI outputs using JSON schema structures, and developing automation solutions for use cases including social media, marketing, data analytics, and content generation.

The training particularly targets growth, marketing, data, and operations teams, enabling them to eliminate manual workloads and build scalable, intelligent, and sustainable automation solutions.

Audience

- Digital marketing and growth teams
- Business analysts
- Data analysts and data teams
- Software developers

Outline

Introduction to n8n and Core Concepts

- What is n8n? Use cases
- Workflow and node architecture
- n8n interface and basic usage

Installation and Technical Setup

- Free n8n setup (Repocloud)
- Environment preparation and configuration
- Connecting nodes via Webhooks (HTTP)

AI Integrations and Agent Architectures

- ChatGPT integration
- Claude integration
- Using Gemini and DeepSeek
- JSON Schema usage in AI workflows
- Multi-AI tool integration

API and Data Integration

- Using n8n API
- Fetching data via HTTP node
- Web scraping techniques
- Database integration (Supabase)

Workflow Development and Node Usage

- Using Loop and Limit nodes
- Call Other Workflow
- Using DataTable
- Rename and data transformation operations

Social Media and Communication Integrations

- Telegram integration
- WhatsApp integration
- Slack and Google Chat connections
- Instagram and LinkedIn integrations
- YouTube integration

Content and Marketing Automation

- Instagram DM chat automation
- Social media posting automation
- WordPress / content automation
- SEO content analysis
- Internal linking automation

Advertising and Growth Automation

- Google Ads agent (Part 1 & 2)
- Google Ads competitor tracking automation
- Meta Ads competitor analysis
- Google Analytics integration

E-Commerce and Business Process Automation

- Shopify integration
- WooCommerce integration
- PDF embedding and CV automation
- Form and chat systems

AI-Powered Advanced Scenarios

- SEO agent development
- Smart meeting assistant automation
- UGC generation (Sora + Nano Banana)
- Stock & investment automation

Integration and Extensibility

- Airtable integration
- Google Slides integration
- DataforSEO MCP setup
- Claude MCP setup
- Veo3 integration

Human-in-the-Loop and Control Mechanisms

- Human-in-the-loop (Telegram)
- Approval workflows
- Controlled automation design

Prerequisites

There are no prerequisites for this course.