n8n AI-Powered Workflow Automation & Agent Development Training

Duration: **2 Day**

BILGINÇ IT Academy
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Overview

This training program is designed for teams looking to move beyond traditional process automation and build intelligent, interconnected systems powered by artificial intelligence. Using n8n, an open-source workflow automation platform, participants will gain hands-on experience in designing end-to-end workflows, establishing API connections, developing AI agents, and managing data flows between different applications and services.

Throughout the course, participants will explore how to integrate AI models such as ChatGPT, Claude, Gemini, and DeepSeek into n8n workflows. The program also covers structuring AI-generated outputs with JSON Schema and connecting multiple AI tools within automated processes. Practical exercises will focus on automation scenarios involving social media management, digital marketing, data analysis, and content creation.

Developed particularly for growth, marketing, data, and operations teams, this training aims to reduce repetitive manual tasks and help organizations create scalable, sustainable, and AI-driven automation solutions.

Prerequisites

No prior knowledge or experience is required to attend this training.

Who Should Attend

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

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What You Will Learn

By the end of this training, participants will be able to:

- Design and develop automated workflows using n8n.
- Understand n8n setup, Node architecture, and Webhook functionality.
- Integrate ChatGPT, Claude, Gemini, and DeepSeek into automated workflows.
- Build AI agents and generate structured outputs using JSON Schema.
- Connect data sources using APIs, HTTP Nodes, Supabase, and web scraping.
- Automate social media, communication, and content management processes.
- Develop SEO, digital advertising, e-commerce, and marketing automations.
- Extend AI-powered workflows through MCP integrations.
- Build controlled automation systems using Human-in-the-Loop and approval mechanisms.

Outline

Getting Started with n8n and Fundamental Concepts

- Understanding n8n and its practical applications
- Workflow structure and node architecture
- Exploring the n8n interface and essential features

Installation and Technical Configuration

- Setting up a free n8n environment using Repocloud
- Preparing and configuring the working environment
- Establishing node connections through HTTP Webhooks

AI Integrations and Agent Architectures

- Integrating ChatGPT into n8n
- Connecting Claude to automated workflows
- Working with Gemini and DeepSeek models
- Implementing JSON Schema in AI workflows
- Connecting and coordinating multiple AI tools

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API Connectivity and Data Integration

- Working with the n8n API
- Retrieving data using the HTTP node
- Applying web scraping techniques
- Integrating Supabase databases

Workflow Design and Node Operations

- Implementing Loop and Limit nodes
- Connecting workflows with Call Other Workflow
- Working with DataTable
- Renaming fields and transforming data

Social Media and Communication Integrations

- Setting up Telegram integration
- Connecting WhatsApp
- Integrating Slack and Google Chat
- Connecting Instagram and LinkedIn
- Working with YouTube integration

Content and Marketing Automation

- Automating Instagram DM conversations
- Building automated social media publishing workflows
- Automating WordPress and content management processes
- Performing SEO content analysis
- Creating internal linking automation workflows

Advertising and Growth Automation

- Developing a Google Ads Agent (Parts 1 and 2)
- Automating Google Ads competitor monitoring
- Analyzing competitors through Meta Ads
- Integrating Google Analytics

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E-Commerce and Business Process Automation

- Connecting Shopify to n8n workflows
- Integrating WooCommerce
- Working with PDF embedding and CV automation
- Developing form-based and chat-based systems

Advanced AI-Powered Automation Scenarios

- Building an SEO Agent
- Automating intelligent meeting assistants
- Generating UGC content with Sora and Nano Banana
- Developing stock market and investment automation workflows

Integration and Extensibility

- Connecting Airtable
- Integrating Google Slides
- Configuring DataforSEO MCP
- Setting up Claude MCP
- Integrating Veo3

Human-in-the-Loop and Automation Controls

- Implementing Human-in-the-Loop workflows through Telegram
- Building approval-based automation processes
- Designing controlled and manageable automation systems