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Master n8n

Hands-On AI Agent & Automation Deep Dive - 2 / 3 days

FA-0298 · 2 / 3 days

Agentic & Generative AI · Automation, RPA & Power Platform

Introduction

If your competitors are using AI automation and you're not, you're already behind. This course cuts straight to what actually works: building AI systems that handle real business tasks without the usual academic fluff.

You'll use n8n to create practical tools like AI agents that can have conversations with customers, voice systems that respond to spoken requests, automated systems that onboard new employees, and smart workflows that pull information from your existing data to answer questions instantly.

This isn't designed for students or hobbyists—it's for professionals and business owners who need results they can implement immediately. Every project we build is something you could deploy at your company next week. No theory lectures, no toy examples, just proven automation solutions that save time and make money.

Learning outcomes

By completing this course, participants will be able to:

- Use n8n to architect complex automation workflows, agents, and voice systems.
- Connect n8n to LLMs, messaging platforms, voice AI, and vector databases.
- Design and launch AI automation solutions for email, WhatsApp, voice interaction, research, onboarding, and more.
- Configure self-hosted n8n setups for unlimited workflow execution.

- Implement Retrieval-Augmented Generation (RAG) and multi-agent collaboration pipelines.
- Deploy AI voice agents for appointment booking, support, and inbound/outbound calls.
- Package and deliver AI automation services to clients or internal stakeholders.

Prerequisites

- Basic familiarity with web APIs and data structures (JSON, HTTP).
- Access to n8n Cloud or self-hosted instance (instructor will assist setup).
- OpenAI (or equivalent) API key.
- Messaging/voice service accounts: Telegram, WhatsApp, Twilio, Retell AI, ElevenLabs.
- Vector database account: Pinecone or Supabase.

Training outline

1. 1. Foundations & Workflow Essentials

Overview & Setup

- Course roadmap, resources, and expectations
- What are workflows, automations, AI agents?

n8n Environment

- Creating and navigating an n8n instance
- Workflow import/export, execution logs, version control
- Self-hosting setup for unlimited workflows

First Automations

- Building and executing your first workflow
- Intermediate triggers: Telegram bot, Google Drive ↔ Airtable sync

- AI-powered tasks: audio transcription, Notion sync, document summarization

Core Concepts

- Node types, data structures, and trigger mechanisms
- APIs, webhooks, HTTP basics in n8n
- Workflow testing: pinning and editing data samples

2. 2. AI Integration, RAG & Agent Foundations

LLMs & API Credentials

- Connecting to OpenAI, Deepseek via HTTP/OpenRouter
- Telegram, WhatsApp, Google services credentials

Understanding AI Agents

- Differentiating automation, AI automation, assistants, multi-agent systems
- RAG foundations and introduction to vector databases

Practical Builds

- Gmail AI classifier and management system
- Building first custom AI agent workflows
- Onboarding automation systems with intelligent checkpoints
- RAG agent set-up: Pinecone + embedding + documentation retrieval
- Enhancing AI agents with “Think” node logic

3. 3. Advanced Agent Systems & Voice Automation

Agent Teams & MCP

- Building a multi-agent research assistant
- Introduction to “Model Context Protocol (MCP)” and server setup
- Coordinating agent memory and task management

Custom Agent Builds

- WhatsApp research assistant (DeepSeek, RAG)
- Email agent teams, invoice extractor, expense tracker
- Lead-gen workflows: Apollo, SEO keyword research, LinkedIn, Google Maps

Voice Agent Implementation

- Voice AI flow: Retell AI + Cal.com appointment scheduler
- ElevenLabs voice bot for web-based support/sales
- Receptionist agent for inbound/outbound calls using VAPI + Twilio
- Integrating Supabase long-term memory into voice agents.

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