



Building Your First Voice AI Agent

Learn to build a smart voice agent that answers questions from your knowledge base using 11 Labs and N8N integration

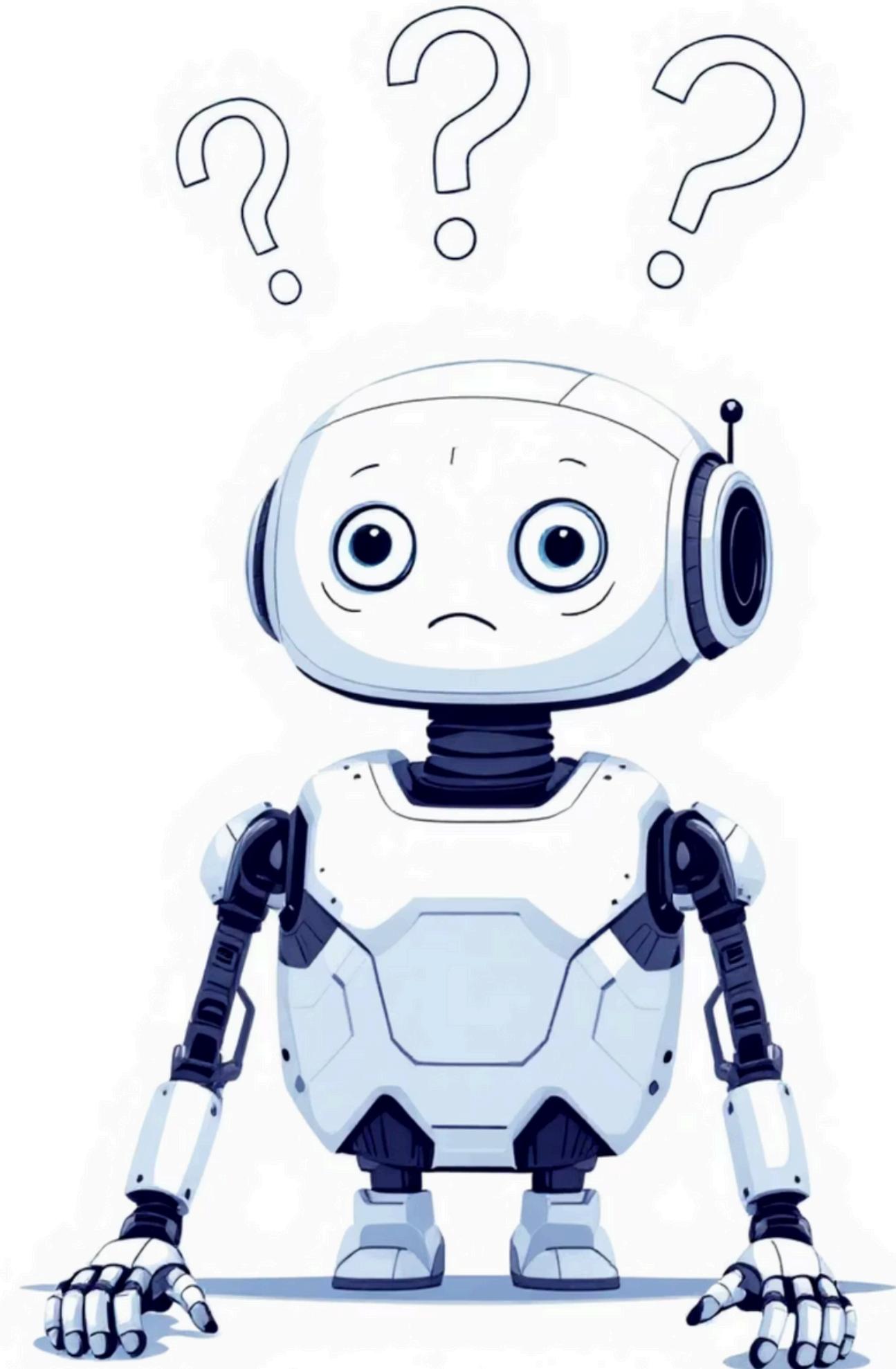
Created by Chinmay Kaitade | MERN Stack Developer | AI Enthusiast

The Challenge We're Solving

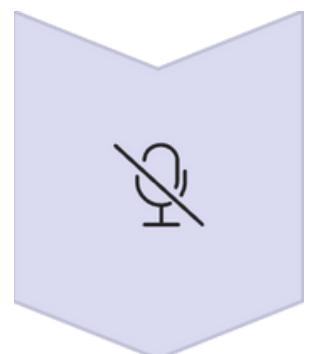
Basic Voice Agents Are Limited

Standard voice assistants can't access your specific knowledge base, leading to generic responses that miss crucial details about your projects or business.

Created by Chinmay Kaitade | MERN Stack Developer | AI Enthusiast

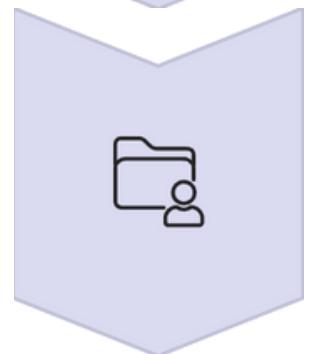


Our Solution: Voice + RAG Integration



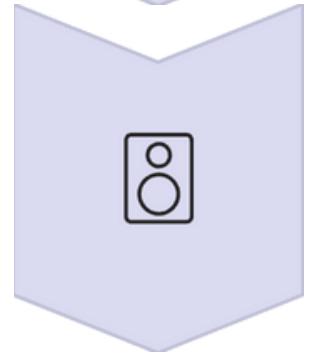
Listen

Agent hears user's verbal query



Retrieve

Searches your custom knowledge base



Respond

Generates accurate verbal answer





Setting Up Your 11 Labs Dashboard

01

Access 11 Labs Platform

Sign up for free account with
10,000 credits to start building

02

Navigate to Conversational AI

Go to "Conversational AI" >
"Agents" > "New Agent"

03

Choose Blank Template

Start with blank template for maximum customization control

Configuring Your Voice Agent

Language Settings

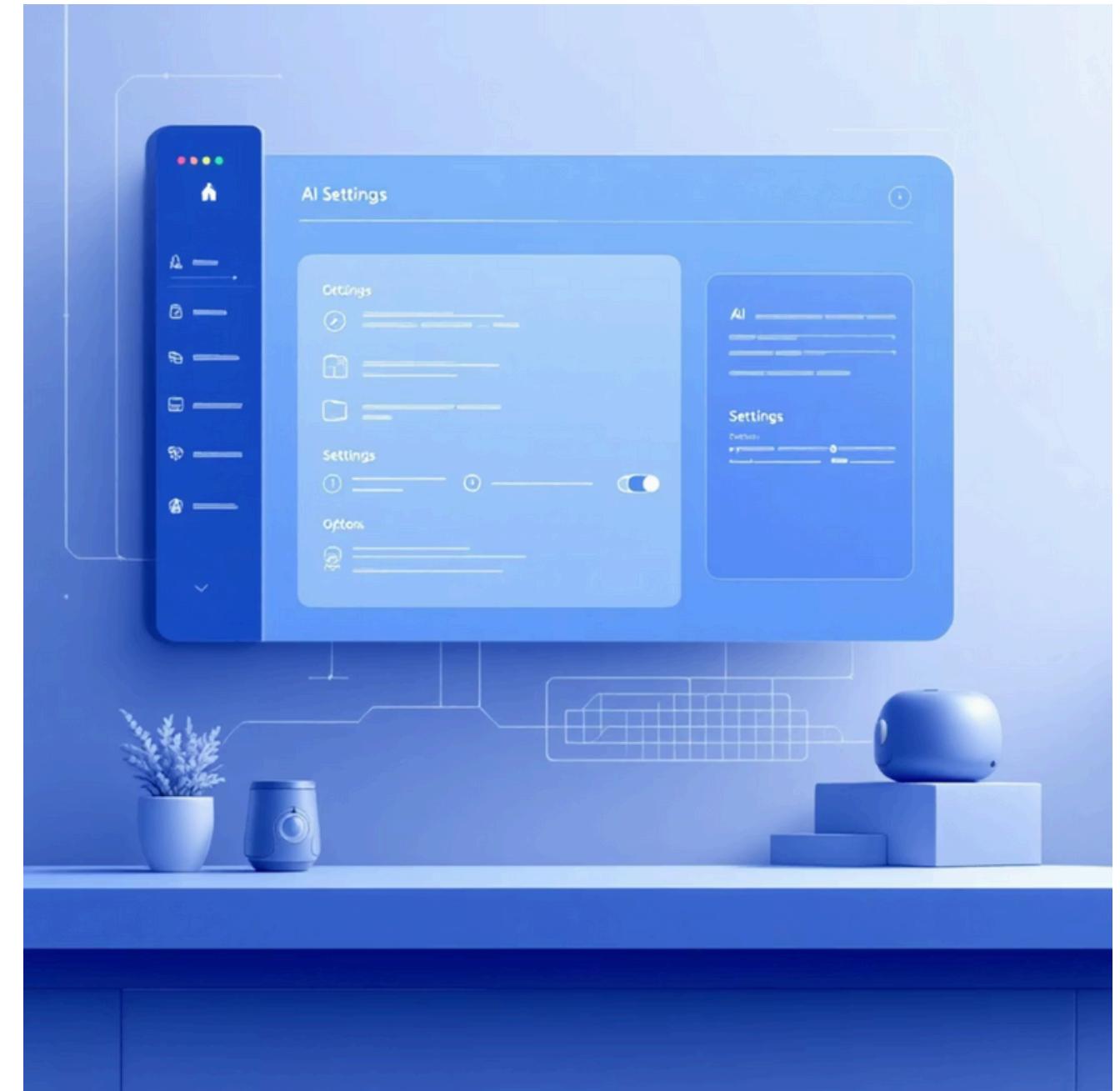
Set primary language and add multilingual support (English, Hindi, etc.)

LLM Selection

Choose Gemini Flash 2.0 or OpenAI with temperature 20-30 for balanced responses

System Prompt Design

Define personality, goals, and strict guard rails for professional interactions



N8N Workflow Integration

Replace Chat Trigger

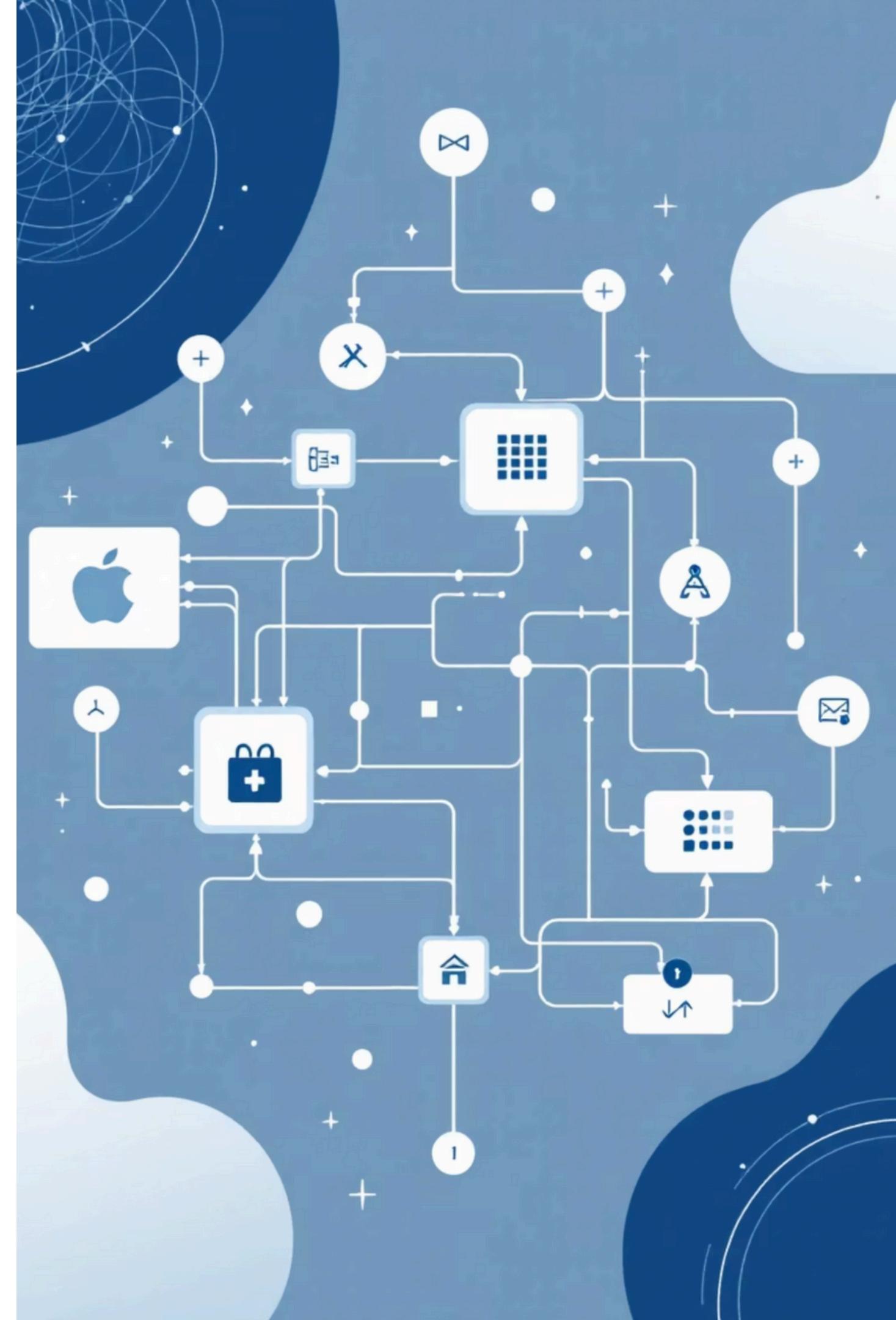
Remove existing chat trigger and add Webhook node for external connections

Configure Webhook

Set method to POST, enable "Respond to Webhook", and copy the test URL

Activate Workflow

Ensure your RAG workflow is active and ready to receive requests





Creating the Custom Tool Connection

Add Custom Tool

Name it "n8n" with description: "Call this tool to send user's question to N8N for perfect answers"

Configure Parameters

Set method to POST, add N8N webhook URL, and create "question" body parameter

Extract Settings

Enable transcript extraction to automatically capture user questions

Testing Your Voice AI Agent

Test Questions to Try

- "What are Chinmay's key skills?"
- "Tell me about the Google Gemini Clone project"
- "What's Chinmay's experience?"

Test multilingual capabilities by asking questions in different languages if configured.



Future Enhancements & Scaling



Calendar Integration

Add appointment booking capabilities through voice commands with automatic scheduling



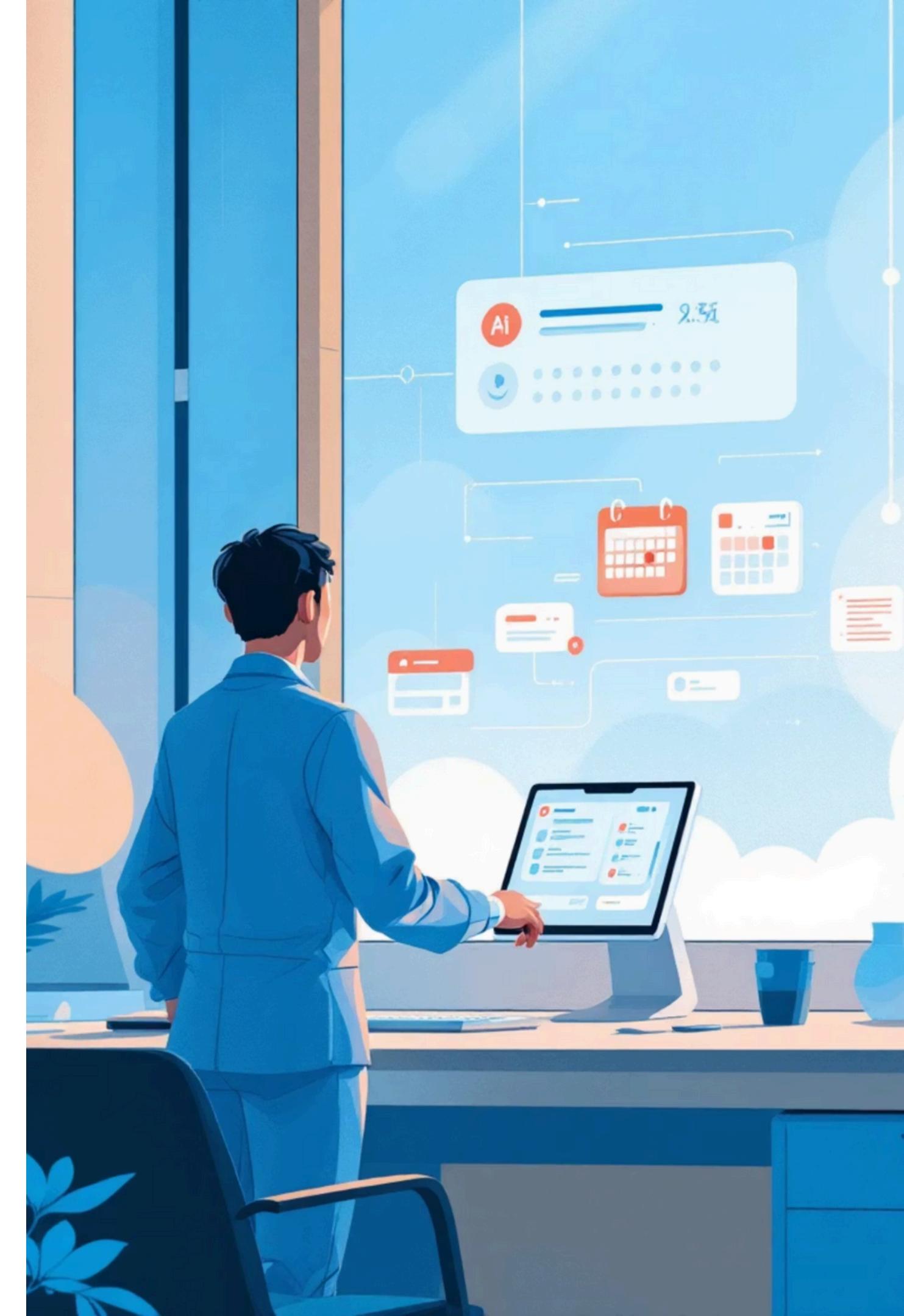
Email Automation

Send confirmation emails to both customers and business owners automatically



VPS Hosting

Use Hostinger VPS for unlimited executions and professional-grade reliability





Ready to Build Your Voice AI Agent?

You now have everything needed to create intelligent voice agents that understand your specific knowledge base and provide accurate, contextual responses.



Follow the Journey

Daily AI learning updates on Instagram @chinmaykaitade_hunter



Explore Code

Find all projects and code on GitHub.com/ChinmayKaitade