

Jaives

Your Personal AI Assistant for macOS

An assistant that can truly do it all. Not just chat — but act.

What is Jaives?

Jaives is an intelligent, personal AI assistant that runs directly on your Mac and integrates seamlessly into your digital day. Unlike simple chatbots, Jaives can actively access your services — send emails, manage your calendar, organize files, and even control your Mac, all through natural language.

Powered by the best AI models: Google Gemini 3.1 Flash-Lite (default), Gemini 3.1 Pro & Claude Opus 4.8 (selectable) — with intelligent automatic fallback. Local models (Qwen 3.5) are also available for offline use.

Feature Overview

Email & Communication

Feature	Description
Gmail	Read, search and send mail — with full access to labels and search operators
IMAP Mailboxes	Any additional mail accounts via IMAP — list accounts & folders, search and read messages
Signal Messenger	Receive & send messages, manage groups, search contacts
WhatsApp	Custom bridge (Baileys) — send & receive messages, images, files & voice notes. Control Jaives from anywhere via your phone!
Scheduled Messages	Send emails, Signal & WhatsApp messages on a delay — survives restarts!

Calendar & Tasks

Feature	Description
Google Calendar	All calendars at a glance — upcoming & past events, create, edit & delete
Google Tasks	Create, complete and delete tasks — with due dates
Reminders	Persistent timers with macOS notifications — “remind me in 30 min” or “at 3 PM”
Daily Briefing	Weather, appointments, unread mail, tasks & reminders — all at a glance

Cloud & Files

Feature	Description
OneDrive	Search, upload & download files, create folders & text files, read file contents
Google Drive	Full counterpart to OneDrive — browse, upload & download, create files & folders, read contents (Google Docs/Sheets are converted automatically)
Local File System	Browse directories; read, write, copy, move, rename and delete files
PDF Tools	Read, summarize, create, merge, split, rotate, insert text, extract images, export as PNG, password-protect
Web Downloads	Download files from the internet (PDF, images, ZIP, etc.)

Web & Research

Feature	Description
Web Search	DuckDuckGo integration for up-to-date info, prices, news, flight data
Web Fetch	Retrieve web pages and extract their text content
Web Images	Extract images from web pages (og:image, Twitter card, img tags, CSS backgrounds)
Weather	Multi-day forecast for any location — temperature, rain, wind, sunrise/sunset

Google Maps & Navigation

Feature	Description
Route Planning	Calculate route & travel time — car, walking, cycling, transit — with turn-by-turn directions & Maps link
Nearby Search	Find restaurants, pharmacies, gas stations, etc. nearby — with ratings & open/closed status
Place Details	Address, phone, website, opening hours & rating for any place
Geocoding	Address → GPS coordinates (and back)
Device Location (GPS)	Determine the Mac's current location via CoreLocation (Wi-Fi/hardware) — with elevation, address & Maps link. Automatic elevation fallback via Open-Meteo

macOS Control

Feature	Description
App Control	Launch and quit apps, list running apps, open URLs
System Control	Volume, dark mode, Wi-Fi, lock screen, sleep, system info
Spotify	Full control — play/pause, skip, volume, shuffle, repeat, search & play playlists
Microsoft Office	Word, Excel & PowerPoint — create new documents with layout options
Clipboard	Read & write the macOS clipboard
Shell Commands	Run arbitrary terminal commands (with a safety prompt)
Process Management	List running processes, start new background processes, terminate processes (gracefully or forcefully)

UI Automation

Feature	Description
AppleScript	Run any AppleScript — access to every macOS app
Mouse & Keyboard	Click, move, type, keyboard shortcuts, scroll, drag & drop
Window Control	Query the active app & window title, bring apps to the foreground
Screen	Query resolution, show system notifications

Vision & Media

Feature	Description
Screenshot & Analysis	Capture the screen and analyze it with AI — OCR, descriptions, answering questions
Image Analysis	Understand any image (photos, diagrams, documents) with a vision model
Image Generation	Create images from text prompts via Gemini Imagen 3 — various aspect ratios, up to 4 images at once
Video Analysis	Analyze local videos & YouTube URLs — detect scenes, read text, describe content
Voice Messages	Automatically transcribe WhatsApp voice notes with Whisper

Voice

Feature	Description
Voice Input	Microphone capture + Whisper transcription — speak instead of type
Voice Output (macOS)	Text-to-speech with macOS voices (German & English)
Voice Output (ElevenLabs)	High-quality AI voice via ElevenLabs Multilingual v2 — natural & expressive

Instagram

Feature	Description
Login & Session	One-time browser login — session is saved & reused automatically
Profile Pictures	Fetch the latest images from public & private profiles (highest resolution)
Post Images	Extract all images from a post — including multi-image carousel posts
Download Reels	Save Instagram reels & video posts as MP4 — via yt-dlp or a Playwright fallback

Knowledge Base

Feature	Description
Save Notes	“Remember that...” — Jaives stores info persistently and finds it again
Full-Text Search	Search all notes by keyword
Contacts	Search Google Contacts — addresses, phone numbers, emails

Self-Management

Feature	Description
Self-Modification	Jaives can extend its own source code — with backup & syntax check
Automatic Backups	Every 6 hours to OneDrive — old backups are deleted after 7 days
Proactive Mode	Background monitoring for upcoming appointments with push notifications
Chat History	Conversation history is saved — Jaives remembers the context

Database & Integration

Feature	Description
MySQL Queries	Direct read-only queries against the business databases (customers, jobs, invoices, project costs) — structured JSON instead of a detour through the shell
Webserver Deploy	Upload files via FTP straight to the website — build & deploy in one step
Chat History Access	Retrieve past conversations as structured data — for coordinating with other AI tools
Cost Analysis	Break down API usage (tokens & cost) directly from the chat

n8n Workflow Automation

Feature	Description
Trigger n8n Webhook	Jaives starts n8n workflows via webhook — tickets, DB entries, notifications, anything n8n can do
List Workflows	Show all existing n8n workflows (name, ID, active/inactive)
Check Executions	Query the status of recent workflow runs (success/failure, timestamps)
HTTP API Server	Jaives is itself reachable via HTTP (port 7799) — n8n can call Jaives tools directly
Web Chat	GET /chat — browser-based chat with media upload (images, audio, video, PDF). Same system prompt as the terminal, multimodal processing via Gemini
AI Endpoint for n8n	POST /ask — n8n asks Jaives a free-form question and gets a text answer back. Supports an optional media field for multimodal input
Tool Endpoint for n8n	POST /tool — n8n calls any Jaives tool (Gmail, Calendar, WhatsApp, ...)
Status Endpoint for n8n	GET /status — CPU, RAM, disk, uptime, component status — ideal for n8n monitoring workflows
Browser Status Dashboard	jaives_status.html — live Mac health status in the browser, dark mode, auto-refresh every 15s
CORS Support	The API server accepts browser requests from file:// and other origins

Monitoring & Self-Supervision

Feature	Description
Watchdog	An external bash process monitors Jaives every 60s — restarts it automatically on a crash
LaunchAgent	The watchdog starts automatically after each Mac login via macOS launchd (watchdog_install)
Restart Notification	Jaives automatically sends a WhatsApp when it has been revived by the watchdog
System Health Dashboard	CPU, RAM, disk, battery, top processes, component status at a glance (system_health_check)
Automatic Alerts	Warning when RAM/CPU/disk exceed 90% — right in the health check and the /status endpoint

Real-World Examples

“What's on my calendar tomorrow?”

→ Jaives shows all events across every calendar.

“Send my wife a WhatsApp: I'll be there in 20 minutes”

→ Jaives asks for confirmation and sends the message.

“Remind me about the meeting at 3 PM”

→ A macOS notification pops up right at 3 PM.

“What's in the PDF on my desktop?”

→ Jaives reads the PDF and summarizes it.

“Play my chill playlist on Spotify”

→ Finds the playlist and starts playback.

“Email me the shopping list tomorrow at 8:30”

→ Schedules the email – sent automatically, even after a restart!

“What's on my screen?”

→ Takes a screenshot and analyzes it with AI.

“Remember: the office Wi-Fi password is SuperSecret123”

→ Stores it in the knowledge base.

“Create a support ticket for customer Miller – printer broken”

→ Jaives calls the n8n webhook 'ticket-erstellen' and passes all the data.

“What's the fastest way to the airport?”

→ Jaives calculates the route with travel time, distance & turn-by-turn directions.

“Any good Italian place nearby?”

→ Jaives finds restaurants with ratings and opening hours.

“Generate an image of a sunset over Vienna”

→ Creates an image with Gemini Imagen 3 and can send it straight via WhatsApp.

“Download the reel from @username”

→ Saves the Instagram reel as MP4 – via yt-dlp or a browser fallback.

“How's the system doing right now?”

→ CPU 22%, RAM 6.4/16 GB, disk 13%, battery 80% (charging), all components green.

“Install the watchdog”

→ Jaives installs the LaunchAgent – it now auto-restarts after any crash.

Technical Highlights

- Multi-AI engine: Google Gemini 3.1 (default: Flash-Lite) + Claude Opus 4.8 + local Qwen 3.5 models, with automatic fallback
- 168 tools — the largest tool collection in a personal assistant
- 30+ tool categories — from email and navigation to UI automation
- Persistent reminders — survive restarts thanks to JSON serialization
- WhatsApp bridge — custom Baileys integration (Node.js) for real-time messaging
- Self-modification — the assistant can extend itself (with a safety net!)
- Automatic backups — to OneDrive, every 6 hours, with rotation
- Vision & audio — Gemini Vision for images/videos, Whisper for speech, ElevenLabs for a natural voice
- Image generation — Gemini Imagen 3 creates images from text prompts
- Google Maps — route planning, nearby search, place details & geocoding
- Instagram — download profile pictures, posts & reels (Playwright + yt-dlp)
- UI automation — mouse, keyboard, AppleScript — Jaives can operate any macOS app
- Process management — list, start & terminate running processes
- Dual cloud storage — OneDrive (Microsoft Graph) and Google Drive in parallel, incl. reading & writing file contents
- Database access — direct read-only MySQL queries against the business databases
- Multi-provider auth — MSAL (Microsoft), Google OAuth 2.0, signal-cli
- n8n integration — bidirectional: Jaives triggers n8n workflows & n8n calls Jaives tools
- HTTP API server — port 7799, secured via a secret header, for external automation
- Watchdog — external bash process + macOS LaunchAgent supervises Jaives, restart WhatsApp on crash
- System health dashboard — CPU, RAM, disk, battery, top processes via `system_health_check` or `GET /status`

Integrations

Service	API / Protocol
Google Gmail	Google API (OAuth 2.0)
Google Calendar	Google API (OAuth 2.0)
Google Tasks	Google API (OAuth 2.0)
Google Contacts	Google People API
Google Drive	Google API (OAuth 2.0)
Google Maps	Maps Platform (Directions, Places, Geocoding)
Microsoft OneDrive	Microsoft Graph API (MSAL)
MySQL Databases	Direct queries (read-only)
Signal Messenger	signal-cli (local)
WhatsApp	Custom Baileys bridge (Node.js)

Service	API / Protocol
Instagram	Playwright + yt-dlp (browser automation)
Spotify	AppleScript
Microsoft Office	AppleScript
DuckDuckGo	ddgs (web search)
Open-Meteo	REST API (weather)
OpenAI Whisper	Local model (speech recognition)
ElevenLabs	REST API (text-to-speech)
Gemini Vision	Google GenAI API (image/video analysis)
Gemini Imagen 3	Google GenAI API (image generation)
n8n	REST webhooks + HTTP API (bidirectional)

Who is Jaives for?

Entrepreneurs & the self-employed — who want an assistant that actually works.

Power users — who want to control their Mac by voice and chat.

Busy people — who want to manage appointments, mail and tasks in one place.

The tech-savvy — looking for an extensible, customizable assistant.

Jaives by the Numbers

168	integrated tools
30+	tool categories
20	external service integrations
4	AI model families (Google Gemini, Anthropic Claude, local Qwen models, Whisper)
2	cloud storages in parallel (OneDrive + Google Drive)
5	messaging channels (Gmail, Signal, WhatsApp, macOS notifications, email reminders)
5	Google calendars in parallel
10	PDF tools (read, create, merge, split, rotate, text, images, PNG, password, metadata)
13	UI automation tools (AppleScript, mouse, keyboard, windows, notifications)
4	Google Maps tools (route, search, details, geocoding)
24/7	proactive background monitoring + watchdog self-supervision
2	automation directions with n8n (Jaives → n8n & n8n → Jaives)
7	HTTP API endpoints (health, status, tools, chat, tool, ask, OPTIONS/CORS)
1	browser dashboard for Mac health status (jaives_status.html)

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browser web chat with media upload (/chat)

“Jaives isn’t just a chatbot — it’s a digital employee that understands your Mac, your cloud and your communication, and actively acts on your behalf.”

Interested? Get in touch for a demo or a tailored solution for your business.