

PRODUCT CAPABILITIES

MaviNovo AI

Workflow Tool Palette

50+ Enterprise-Grade Automation Nodes for Building Powerful AI Workflows

50+
Workflow Nodes

11
AI/ML Nodes

10
Categories

∞
Possibilities

Build Enterprise AI Workflows Without Code

From simple automations to complex multi-model AI pipelines, MaviNovo AI's visual workflow builder lets you connect powerful nodes to create intelligent business processes in minutes.

10 Powerful Node Categories

AI Generation	Vision & OCR	Data Transform	Flow Control	Data Storage
External Data	Communication	User Forms	Biz Entities	Workflow Ops

AI GENERATION

Intelligent Content & Analysis Nodes

Harness multiple AI models for text generation, image creation, speech synthesis, data analysis, and intelligent validation.

AI Tool Flexible AI execution with dynamic prompt building from 14 parts.	AI Prompt Execute pre-defined prompts with auto input splitting.	Quick AI Task Lightweight AI for common tasks with dynamic params.
AI Transformer Transform content—translations, tone, format changes.	AI Validator Quality assurance with score-based routing and fix directives.	AI Voting Pool Multi-model ensemble with AI judges and iterative refinement.
AI Tabular Analyzer Autonomous multi-step data exploration with JavaScript.	AI Image Generator DALL-E, GPT Image with HD quality and multiple formats.	AI Speech Generator OpenAI TTS with multiple voices, speeds, instructions.
Speech Transcriber GPT-4o, Whisper, diarization for multi-speaker audio.	AI Vision Reader AI-powered image analysis with form understanding.	OCR Extractor Tesseract OCR with multi-language support.

DATA TRANSFORMATION

Format, Convert & Analyze Data

Transform data between formats, merge arrays, create files, and perform statistical analysis on JSON, CSV, Excel, PDF, HTML.

Data Converter Swiss-army converter for markdown, HTML, CSV, JSON, PDF, DOCX, Excel.	Merge & Split Merge strings/arrays, flatten, split by count/size/tokens.	Tabular Analyzer Column extraction, stats, clustering, anomaly detection.
File Maker Convert text to downloadable files with custom encoding.	Array Maker Create JSON arrays by collecting multiple inputs.	Zip Builder Create ZIP archives from multiple files efficiently.
Value Setter Set variables, clear state, apply built-in pipe transforms.	OCR Preflight Validate images before OCR with AI quality scoring.	

FLOW CONTROL

Orchestrate Workflow Logic

Control execution flow with loops, branches, and blocking operations. Build complex decision trees and parallel processing patterns.

<p>Loop Tool</p> <p>Three modes: Counter (from/to), Array iteration, Multi-index. Nested loops and bi-directional counting.</p>	<p>Branching Tool</p> <p>Route based on parameter values. Multiple simultaneous branches, defaults, and always-execute paths.</p>
<p>Execution Blocking</p> <p>Block until external systems populate data. Webhook/API/parallel workflow coordination.</p>	<p>Start / Finish Tools</p> <p>Mark workflow boundaries. Set SUCCESS or FAIL status for downstream handling.</p>

DATA STORAGE

Persistent State & Temp Tables

Read and write data across execution scopes. Create temporary tables for large-scale data processing with full SQL support.

<p>Temp Table Manager</p> <p>Create, drop, truncate temp tables. Auto schema from CSV/Excel.</p>	<p>Temp Table Data</p> <p>INSERT, UPDATE, DELETE with JSON data and SQL expressions.</p>	<p>Workflow Data Reader</p> <p>Read from workflow-level storage (@scope).</p>
<p>Workflow Data Writer</p> <p>Write to workflow-level storage (@scope).</p>	<p>Global Data Reader</p> <p>Read from org-global storage (@@scope).</p>	<p>Global Data Writer</p> <p>Write to org-global storage (@@scope).</p>
<p>Lock Workflow Data</p> <p>Lock data for atomic operations across executions.</p>	<p>Lock Global Data</p> <p>Lock org-global data for workflow synchronization.</p>	<p>Unlock Data Tools</p> <p>Release locks to allow concurrent access.</p>

EXTERNAL DATA

Connect to APIs, Databases & Search

Integrate with external systems through APIs, SQL databases, vector stores, web search, and RPA scripts.

<p>Generic API Call</p> <p>HTTP with bearer, API key, basic auth. Cherry-pick JSON paths.</p>	<p>SQL Query Executor</p> <p>Execute SQL on MySQL-compatible DBs. Tabular JSON results.</p>	<p>Vector DB Search</p> <p>Semantic search with filters and similarity scores.</p>
<p>Vector DB Update</p> <p>Index docs with auto embedding and hierarchical chunking.</p>	<p>Searcher</p> <p>Web search aggregating URLs from multiple keywords.</p>	<p>RPA Script</p> <p>Execute scripts on remote agents with task routing.</p>

COMMUNICATION

Email, Publishing & Messaging

<p>Email Sender</p> <p>Send via SMTP with CC/BCC, attachments, HTML. Multi-recipient formatting.</p>	<p>Email Reader</p> <p>Monitor IMAP/POP3 mailboxes. Capture headers, body, attachments.</p>
<p>Publish Document</p> <p>Publish to platform URLs with access control. Static, SPAs, forms, APIs.</p>	<p>Message Output</p> <p>Output messages to workflow history with timestamps for logging.</p>

USER FORMS

Human-in-the-Loop Interactions

<p>User Input Tool</p> <p>Pause for text input or multi-choice selection.</p>	<p>Custom Form Tool</p> <p>Dynamic forms from schema definitions.</p>	<p>Data Grid</p> <p>Interactive grids with single/multi-select modes.</p>
<p>File Upload Tool</p> <p>Accept uploads with filtering and metadata mapping.</p>	<p>Voice Recorder</p> <p>Browser audio recording with duration limits.</p>	<p>Biz Entity Form</p> <p>Dynamic forms from business entity schemas.</p>

BUSINESS ENTITIES & WORKFLOW OPS

Structured Data & Orchestration

<p>Biz Entity Loader Load by UID, index fields, or initialize blank from schema.</p>	<p>Biz Entity Saver Save/update with schema overlays and audit notes.</p>	<p>Biz Entity Query Query with indexed filters, pagination, and sorting.</p>
<p>Workflow Executor Execute other workflows with optional completion waiting.</p>	<p>Execution Status Check Monitor status with completion and success flags.</p>	

WHY MAVINOVO AI

Enterprise-Ready AI Workflow Automation

<p>Multi-Model AI GPT-4o, Claude, Gemini. AI Voting Pool selects the best output.</p>	<p>Visual Builder Drag-and-drop workflow design. No code required.</p>	<p>Human-in-the-Loop Forms, approvals, uploads, voice recording.</p>
<p>Enterprise Integrations APIs, databases, vector stores with enterprise security.</p>	<p>Document Intelligence OCR, AI vision, form extraction and understanding.</p>	<p>Scalable Processing Temp tables, vector storage, batch operations.</p>

Ready to Automate Your Business?

Schedule a demo to see how MaviNovo AI can transform your workflows with intelligent automation.

www.mavinovo.ai