AI LAB
by nvisia

MICHAEL ARCE

User-Centric Agent Builder

Intelligent Agents Without the Complexity. No code, local-first, future-ready.

GOAL: Creating a solution that makes agent creation and deployment more understandable and accessible

A no-code agent building and deployment platform developed to empower teams to create, templatize, and deploy AI agents.

Designed from the ground up, this platform makes it possible to visually build agents, connect MCP tools, and deploy them, while end users interact with preloaded agent templates via a chat interface. Built with a Flutter front end, SQLite local storage, and optional Olama local model execution, Asmbli supports major LLM APIs (like OpenAI, Google Gemini, Anthropic) while remaining capable of running fully local when APIs are restricted. The architecture emphasizes reliability and longevity through open-source integration, automatic MCP tool updates, and an agentic framework that incorporates visual reasoning flows, adjustable confidence, and human intervention points. The front-end is architected for cross-platform deployment, and the user interface includes built-in accessibility and theming features.

The vision is to make AI development accessible, secure, and adaptable for both technical and non-technical users.

Highlights

- User-focused approach
- Intuitive and accessible
- Runs locally or via LLM APIs
- Auto-updating MCP connections
- Flexible and adaptable

★ Key Features

- Visual agent orchestration platform with wizard builder
- Development-ready agentic workflows
- Confidence tuning and human-in-the-loop checkpoints
- Flexible model support with auto-updating MCP connections
- Secure offline data handling

Applicable Use Cases

- Automating internal workflows
- Assisting with scheduling and notifications
- Enabling secure, offline AI operations
- Prototyping business process agents
- Allowing easier AI adoption for less technical users

Flutter • Model Context Protocol • Ollama • SQLite • Hugging Face

OpenAI • Gemini • Claude • Visual Studio Code

Explore what happens when engineers get curious

The **AI Lab** is where nvisia's engineers and our clients experiment, explore, and build with the latest in AI and emerging tech. See real-world demos from our lab — not just ideas but functional innovations in:

- AI-powered software solutions
- Intelligent automation
- Data science & machine learning
- Custom AI integrations

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Engineering the Future with AI

Strategic Focus Areas

↘ Frameworks & Playbooks
Codifying reusable architectures and best practices for consistent, scalable AI delivery.

↘ Security & Compliance
Embedding data security, model integrity, regulatory alignment, and safe prompt engineering into every stage of the AI lifecycle.

↘ Human-in-the-Loop AI
Designing workflows where AI accelerates analysis and automation, while human oversight and expert review ensure accuracy, reliability, and real-world relevance.

↘ Responsible AI & Ethics
Creating principles, reviews, and tooling that ensure AI is transparent, fair, and aligned with organizational values.

↘ Driving Value
Prioritizing high-impact opportunities, measuring ROI, and ensuring AI initiatives deliver meaningful business outcomes.

↘ Improving Predictability
Using techniques such as Spec-Driven Development to enhance model accuracy, reproducibility, and trustworthiness.

Come Talk to Us

Ask questions, see the tech in action, or just chat with our team.
We're here to share what we've learned — and to learn from you too!

Real demos

Ready to scale

Built by engineers

LET'S CONNECT! Follow up with us at **AILab@nvisia.com** or visit the website: