

# Build general-purpose AI Agents to do Data Science and Data Analytics for you

Format: 8-week workshop series, 3 hours per session

Delivery: Virtual (Zoom)

Languages: TypeScript and Python

## 01. What You'll Learn

This hands-on workshop takes you from zero to production-ready AI agents. By the end, you'll have built a working agent for your specific domain, whether that's GTM, data analytics, customer support, or operations.

## 02. Weekly Curriculum

| Week | Topic               | What You Build                                    |
|------|---------------------|---|
| 1    | Overview & Setup    | Define your capstone project                      |
| 2    | Tool Calling        | Agent that uses Bash, Read, Write tools           |
| 3    | MCP Integration     | Connect external services (Gmail, Notion, GitHub) |
| 4    | Agent Skills        | Reusable SKILL.md files for your domain           |
| 5    | Context Engineering | Sub-agents, RAG, and memory patterns              |
| 6    | Agent SDK           | Headless agents in TypeScript                     |
| 7    | Evals               | Golden dataset testing for quality                |
| 8    | Demos               | Present your capstone project                     |

### 03. Who This Is For

- Business operators wanting to automate repetitive tasks
  - Developers exploring AI agent patterns
  - GTM teams building sales and marketing automation
  - Data analysts creating intelligent data pipelines
  - Anyone who wants to build practical AI tools
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### 04. What Makes This Different

This is not a lecture series. Every session includes:

- Live coding and demonstrations
- Hands-on labs where you build real agents
- Capstone project development time
- Peer learning and collaboration

You leave with a working agent, not just knowledge.

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### 05. Your Facilitator

Hai Nghiem  
CEO @ AGI Ventures Canada

LangChain Ambassador

Ex-GetCoding Instructor

At AGIVC I help companies from startups to F500 solve the most pressing problem with their AI product and engineering team, or AI efficiency and change management for the rest of the organization.

LinkedIn: <https://www.linkedin.com/in/haiphunghiem/> ■

GitHub: <https://github.com/trancethehuman> ■

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### 06. About AGI Ventures Canada

AGI Ventures Canada Inc. is a consulting firm specializing in AI implementation for businesses. We help companies build AI products, deploy intelligent automation, and transform their operations with practical AI solutions.

Website: <https://agiventures.ca> ■