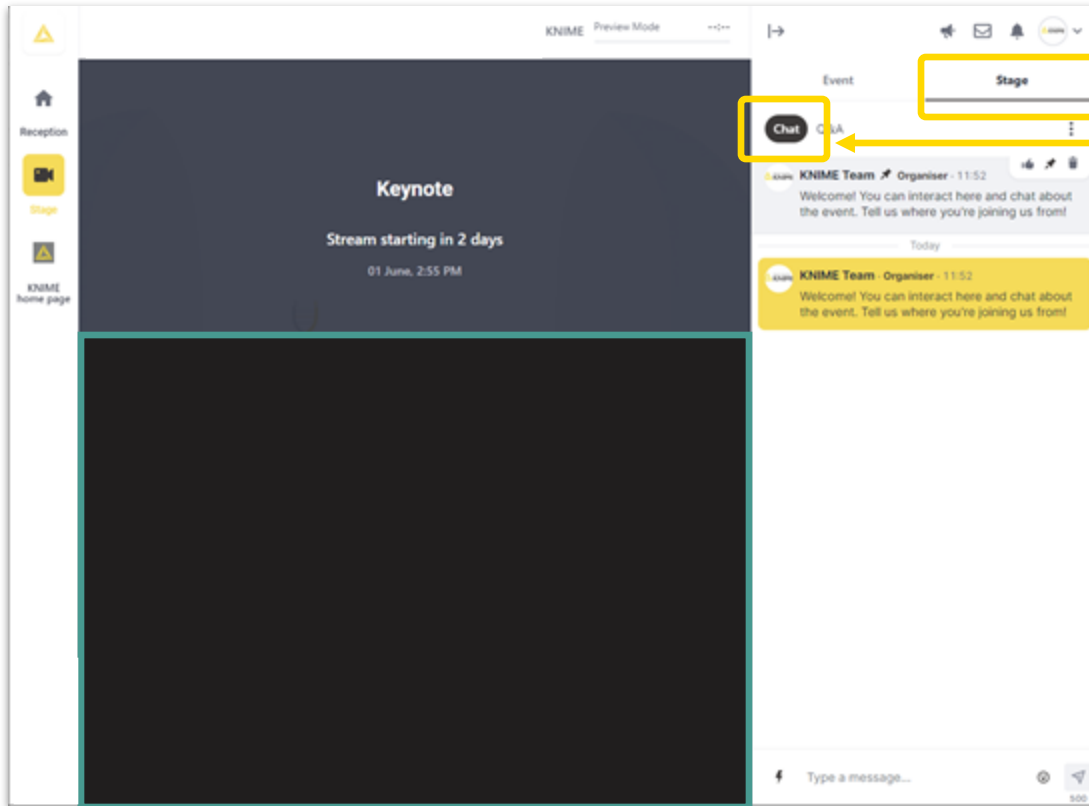




Build Real AI Agents in <1 Hour – No Code, Just Logic

September 23, 2025

Welcome! Use the live CHAT

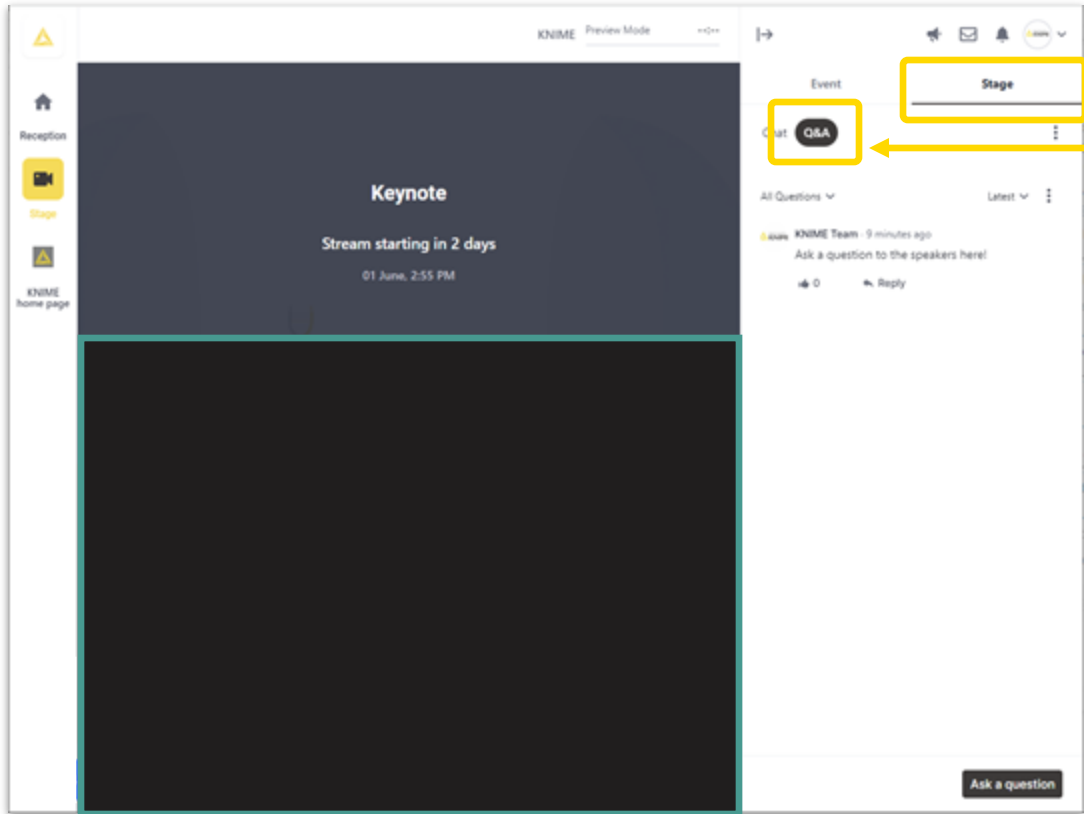


Here you can interact with others about the event!

Post where you are joining us from in the chat!



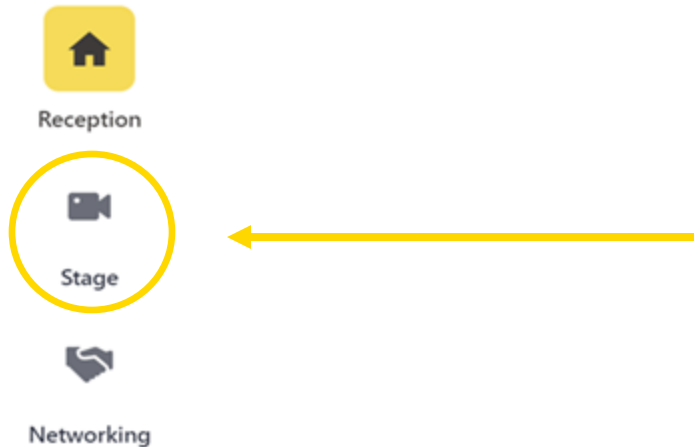
Questions? Use the Q&A Tab



Here you can ask questions to the KNIME team and speakers!

Your question will be answered Live or during "Questions to the Speaker" session.

Streaming Problems? Got Lost?



- Use Chrome or Firefox web browser for the best experience
- Try refreshing your browser
- Use a cabled internet connection if you have poor WiFi
- Try private browser mode
- Click on **'Stage'** to go back to the stream

Speakers



Lada Rudnitckaia
Data Scientist, KNIME



Emilio Silvestri
Data Scientist, KNIME

Agenda

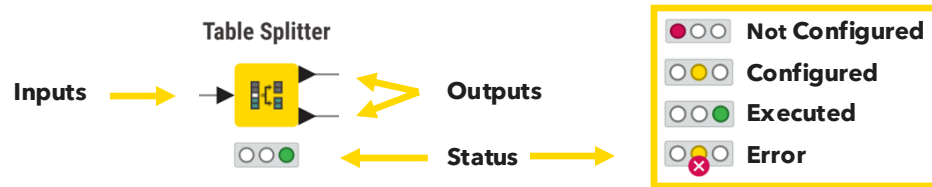
- The KNIME way to AI
- Example 1: Build an Invoice and Discounting Agent (Follow-along)
- Example 2: Research Agent
- Example 3: Spreadsheet Doctor Agent

The KNIME way to AI

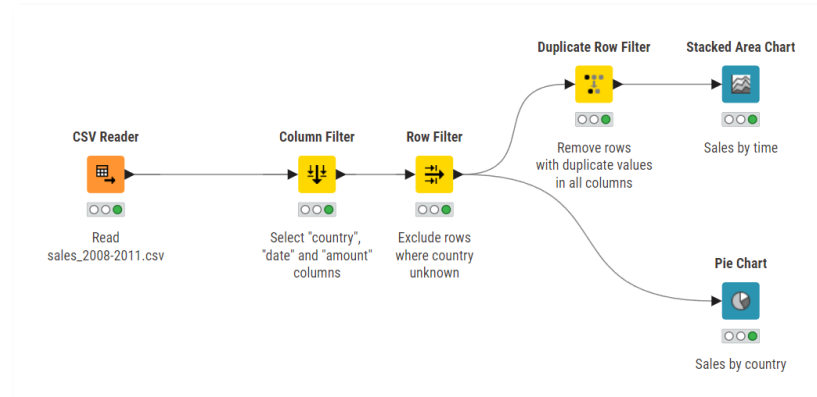


Nodes and Workflows

- **NODES** perform tasks on data

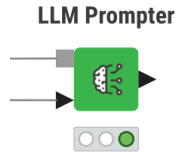


- Nodes are combined to create **WORKFLOWS**



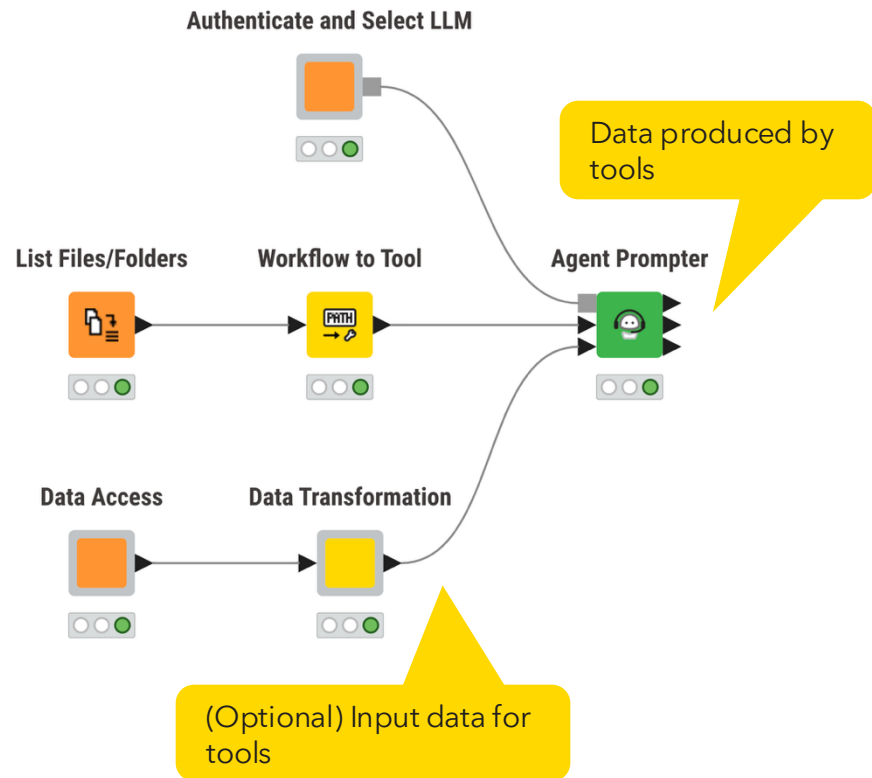
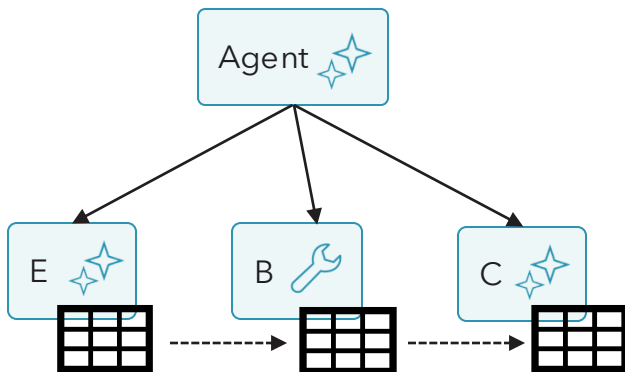
3 options for AI in KNIME

- Simple LLM Prompt



Dynamically call tools + move data

- Data produced by the tool are available to the agent
- The agent can use it as input for next tool calls



Access AI models



OpenAI



Databricks Mosaic AI



Ollama



Azure OpenAI,
AI Foundry



Snowflake



gpt4all



DeepSeek



Amazon Bedrock



xAI



Anthropic



Google AI Studio, Vertex AI



IBM

Follow-along



Get ready to follow along

1. Download KNIME Analytics Platform (version 5.5 or above)
2. Download the exercises hub.knime.com/s/hTn26QjSCeOPEdg3
3. Get the API keys tinyurl.com/KNIME-get-keys

Invoicing and discount agent

- Get the max discount applicable to an order
- Calculate the total order value
- Apply the discount

item	quantity	unit_price
Office Chair	4	150
Standing Desk	1	450
Desk Lamp	3	35
External SSD 1TB	2	120
Webcam HD	2	60
Whiteboard	1	80

The screenshot shows a chat interface titled "Interactive View: Chat". The chat history includes:

- A user message: "what's the total of the order?"
- System messages: "Completed 1 tool call", "3. Calculate Total Completed", and "1595.0".
- A system message: "The total value of the order is 1595.0."
- A user message: "apply the max discount and give me the final value"
- System messages: "Completed 3 tool calls" and "View | 2. Apply Discount".

A "Table View" is displayed, showing 6 rows and 4 columns:

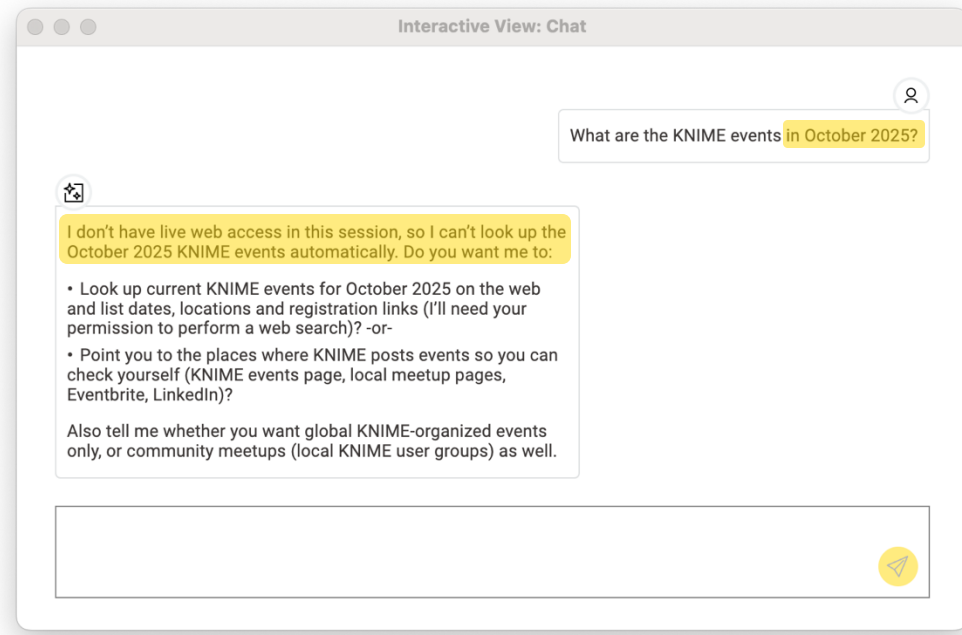
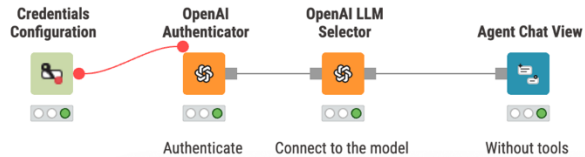
RowID	item	quantity	unit_price	discount...
Row0	Office Chair	4	150	135
Row1	Standing Desk	1	450	405
Row2	Desk Lamp	3	35	31.5
Row3	External SSD 1T	2	120	108

Below the table, a system message states: "The maximum discount applicable to your order is 10%. After applying this discount, the final value of the order is 1435.5."



Example 2: Research Agent

Asking an LLM about current events





Example 3: Spreadsheet Doctor Agent

Manually crafted & human-friendly spreadsheet...

	A	B	C	D	E	F	G
1	Q2 Sales Export (UNVERIFIED)						
2	Note: Values include manual corrections; dates and currencies may vary						
3							
4	Generated by:	ops@company.example			Report Run:	2025/08/15	
5							
6	order id	Customer Name	ORDER_DATE	Amount	currency	country	status
7	1001	ACME GmbH	2025-06-01	€1,200.50	EUR	DE	paid
8	1002	Zenith Components	06/02/2025	1,050.00	usd	USA	PENDING
9	1003	Beta Plastics	2 Jun 2025	\$850	USD	U.S.	PAID
10	1004	N/A	2025/06/05	900,75	eur	Germany	cancelled
11	1005	Omega SpA	05-06-25	(1,200.00)	€	IT	PAID
12	1006	ACME GmbH	2025.06.07	1199	EUR	DEU	pending
13	—	Contoso Ltd	2025-06-08	£700.00	GBP	UK	PAID
14	1008	Delta SA	08/06/25	700	GBP	United Kingdom	PENDING
15	1009	Gamma BV	June 9, 2025	€ 500	eur	NL	Refunded
16	Subtotal			€6,300.25			
17	1010	ACME GmbH	2025-06-10		EUR	DE	paid
18	1011	Contoso Ltd		1.300,00	EUR	GB	PAID
19	1012	Omega SpA	2025-13-01	950.00	EUR	Italy	paid
20	1013	Zenith Components	2025-06-12 14:33	1,050	USD	US	paid
21	1014	Gamma BV	2025-06-13	850.50	EUR	NLD	PAID
22	1015	Delta SA	2025-06-14	€-200.00	EUR	UK	Refunded
23	1016	ACME GmbH	2025-06-15	€ 1.000,00	EUR	DE	paid
24							
25	1017	Contoso Ltd	15/06/2025	1,100	GBP	GBR	PAID
26							
27							
28							
29							
30	Prepared for internal review only						

... ≠ analysis-ready

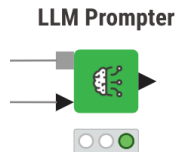
#	RowID	Q2 Sales Exp... <small>T String</small>	empty_B <small>T String</small>	empty_C <small>T String</small>	empty_D <small>T String</small>	empty_E <small>T String</small>	empty_F <small>T String</small>	empty_G <small>T String</small>
1	Row0	Note: Values includ	?	?	?	?	?	?
2	Row1	Generated by:	ops@company.exa	?	?	Report Run:	2025/08/15	?
3	Row2	order id	Customer Name	ORDER_DATE	Amount	currency	country	status
4	Row3	1001	ACME GmbH	2025-06-01	€1,200.50	EUR	DE	paid
5	Row4	1002	Zenith Component:	06/02/2025	1,050.00	usd	USA	PENDING
6	Row5	1003	Beta Plastics	2 Jun 2025	\$850	USD	U.S.	Paid
7	Row6	1004	N/A	2025/06/05	900,75	eur	Germany	cancelled
8	Row7	1005	Omega SpA	05-06-25	(1,200.00)	€	IT	PAID
9	Row8	1006	ACME GmbH	2025.06.07	1199	EUR	DEU	pending
10	Row9	—	Contoso Ltd	2025-06-08	£700.00	GBP	UK	Paid
11	Row10	1008	Delta SA	08/06/25	700	GBP	United Kingdom	PENDING
12	Row11	1009	Gamma BV	June 9, 2025	€ 500	eur	NL	Refunded
13	Row12	Subtotal	?	?	€6,300.25	?	?	?
14	Row13	1010	ACME GmbH	2025-06-10	?	EUR	DE	paid
15	Row14	1011	Contoso Ltd	?	1.300,00	EUR	GB	PAID
16	Row15	1012	Omega SpA	2025-13-01	950.00	EUR	Italy	paid
17	Row16	1013	Zenith Component:	2025-06-12 14:33	1,050	USD	US	paid
18	Row17	1014	Gamma BV	2025-06-13	850.50	EUR	NLD	PAID
19	Row18	1015	Delta SA	2025-06-14	€-200.00	EUR	UK	Refunded
20	Row19	1016	ACME GmbH	2025-06-15	€ 1.000,00	EUR	DE	paid
21	Row20	1017	Contoso Ltd	15/06/2025	1,100	GBP	GBR	PAID
22	Row21	Prepared for intern	?	?	?	?	?	?

Wrap up

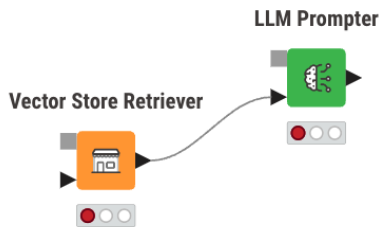


3 options for AI in KNIME

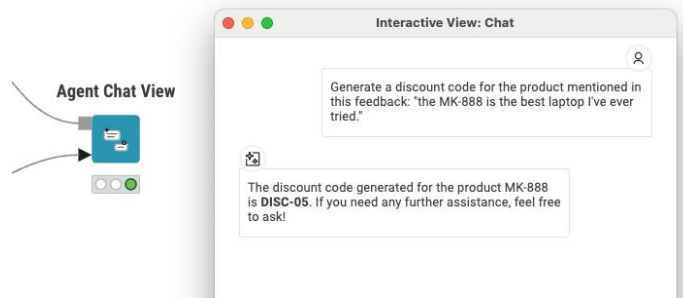
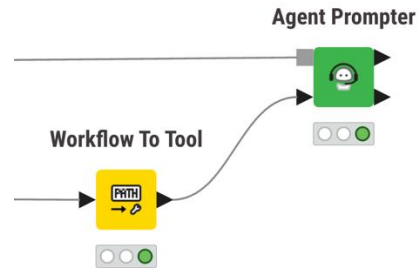
- Simple LLM Prompt



- RAG Architectures



- Agents




Next steps

- Getting started courses!

■ Course

Open for Innovation
KNIME

[GENAI]




GenAI & Data Workflows - Getting Started

[Course 1](#)

■ Course

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[CHAT-RAG-GOV]



AI Chatbots, RAG & Governance with Data Workflows - Getting Started

[Course 2](#)

■ Course

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[AGENTS]



Data-Aware Agentic AI - Getting Started

[Course 3](#)

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Stage



Networking



Expo



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