

Software Spotlight: Data x AI **Bringing AI into your workflows**

KNIME Spring Summit 2025 @ Berlin



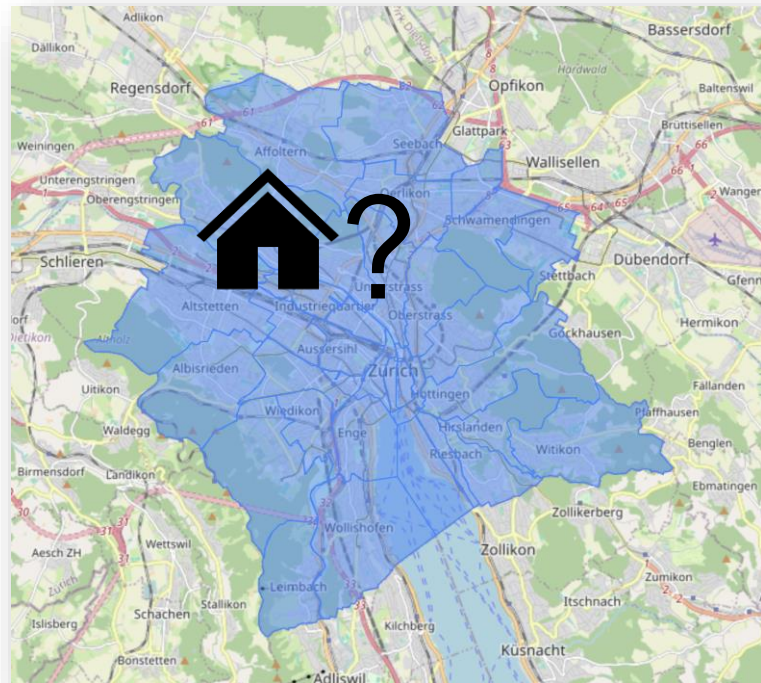
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Team lead: AI



Carsten Haubold
Product owner: Extensions and Scripting

Where should we buy?

- **Use case:** Predict flat prices in Zurich's quarters
- Data catalog with hundreds of datasets
 - Use **GenAI** to find relevant data
- Use latest KNIME AP features to
 - Load and prepare data
 - Train a model
 - Predict prices
 - Analyze and visualize



Demo: Let GenAI suggest datasets from a catalog

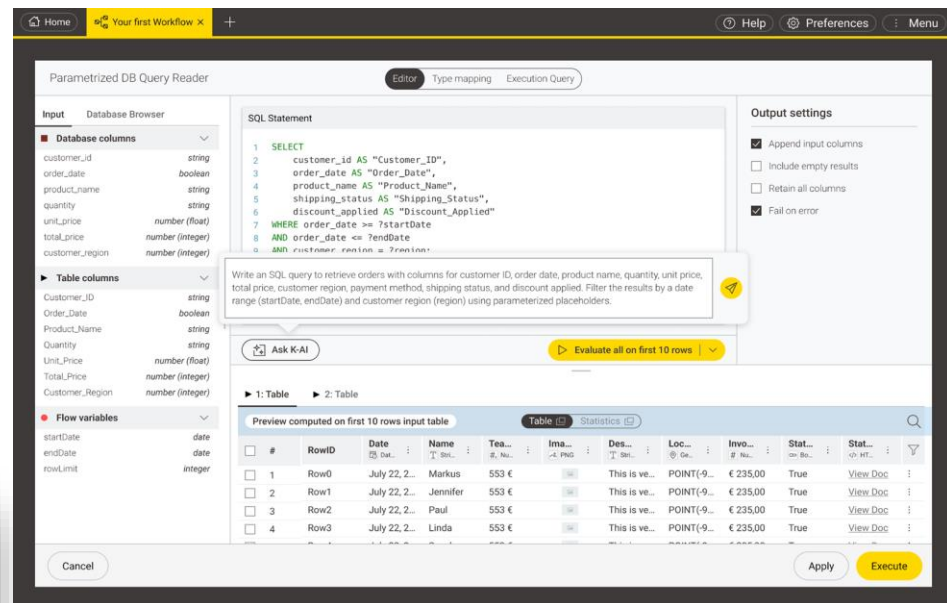
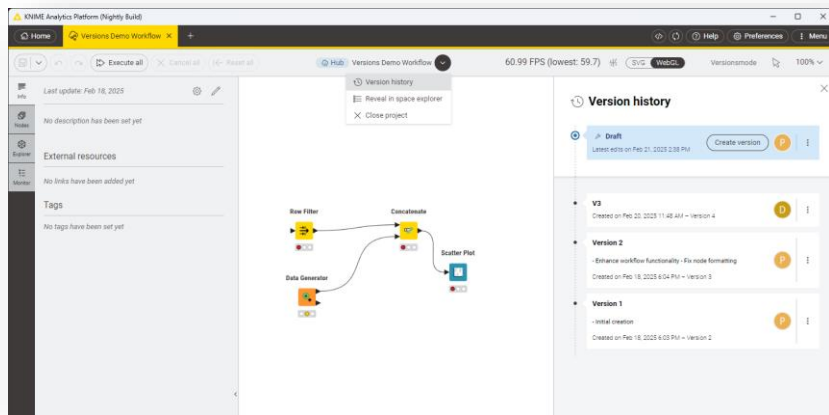
Demo: Train, predict and analyze in modern KNIME

Abstract geometric lines in the top right corner, consisting of several overlapping triangles and polygons in a light yellow color.

What's Cooking in the Analytics Platform

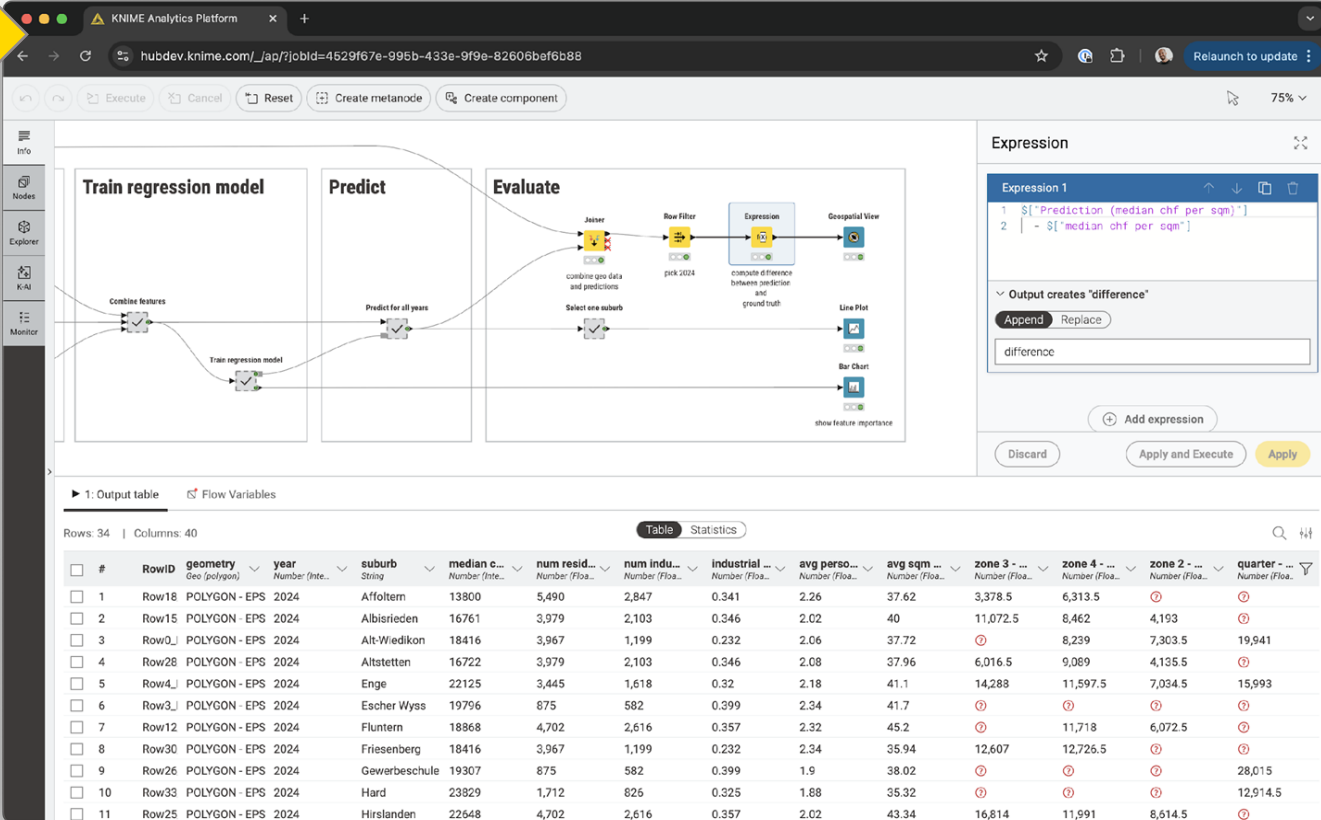
What's Cooking in the AP

- Modernized DB nodes with AI support in SQL editors
- Improved UX when working with large workflows



- Hub functionality available inside the AP
- Streamlined nodes for building AI agents, using the most recent LLMs and multi-modal models

What's Cooking in the Analytics Platform



The screenshot displays the KNIME Analytics Platform interface. A yellow arrow points to the browser address bar, which shows the URL: `hubdev.knime.com/_ap/3jobId=4529f67e-996b-433e-9f9e-82606bef6b88`. The interface includes a top toolbar with buttons for Execute, Cancel, Reset, Create metanode, and Create component. The main workspace is divided into three panels: Train regression model, Predict, and Evaluate. The Train regression model panel shows a workflow starting with 'Combine features', followed by 'Train regression model'. The Predict panel shows 'Predict for all years'. The Evaluate panel shows a workflow starting with 'Joiner', followed by 'Row Filter', 'Expression', 'Geospatial View', 'Line Plot', and 'Bar Chart'. The 'Expression' panel on the right shows the following code:

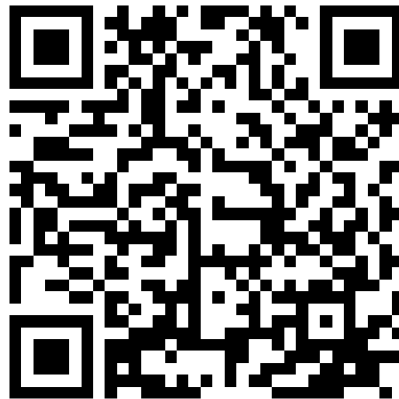
```
1 $["Prediction (median chf per sqm)"]
2 - $["median chf per sqm"]
```

The output creates a "difference" column. The bottom panel displays a table with 34 rows and 40 columns. The table is titled "1: Output table" and "Flow Variables". The columns include: #, RowID, geometry, year, suburb, median c..., num resid..., num indu..., industrial..., avg perso..., avg sqm..., zone 3..., zone 4..., zone 2..., and quarter... The table contains data for various suburbs and their corresponding metrics.

#	RowID	geometry	year	suburb	median c...	num resid...	num indu...	industrial...	avg perso...	avg sqm...	zone 3...	zone 4...	zone 2...	quarter...
1	Row18	POLYGON - EPS	2024	Affoltern	13800	5,490	2,847	0.341	2.26	37.62	3,378.5	6,313.5		
2	Row15	POLYGON - EPS	2024	Albisrieden	16761	3,979	2,103	0.346	2.02	40	11,072.5	8,462	4,193	
3	Row0...	POLYGON - EPS	2024	Alt-Wiedikon	18416	3,967	1,199	0.232	2.06	37.72		8,239	7,303.5	19,941
4	Row28	POLYGON - EPS	2024	Altstetten	16722	3,979	2,103	0.346	2.08	37.96	6,016.5	9,089	4,135.5	
5	Row4...	POLYGON - EPS	2024	Enge	22125	3,445	1,618	0.32	2.18	41.1	14,288	11,597.5	7,034.5	15,993
6	Row3...	POLYGON - EPS	2024	Escher Wyss	19796	875	582	0.399	2.34	41.7				
7	Row12	POLYGON - EPS	2024	Fluntern	18868	4,702	2,616	0.357	2.32	45.2		11,718	6,072.5	
8	Row30	POLYGON - EPS	2024	Friesenberg	18416	3,967	1,199	0.232	2.34	35.94	12,607	12,726.5		
9	Row26	POLYGON - EPS	2024	Gewerbeschule	19307	875	582	0.399	1.9	38.02				28,015
10	Row33	POLYGON - EPS	2024	Hard	23829	1,712	826	0.325	1.88	35.32				12,914.5
11	Row25	POLYGON - EPS	2024	Hirslanden	22648	4,702	2,616	0.357	2.02	43.34	16,814	11,991	8,614.5	

Try it yourself

Workflows are available on the
KNIME Community Hub



https://knime.info/Data_X_AI_Summit25