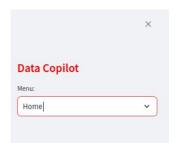
Self-Service Analytics



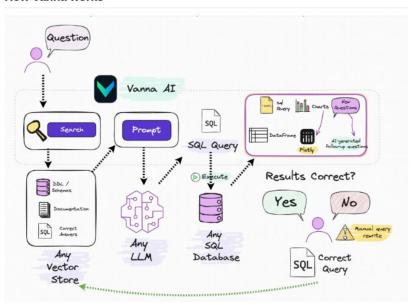
What is Data Copilot?

Data Copilot is a game-changer that streamlines the data-to-insight life-cycle. It is an AI-powered assistant, built on cutting-edge LLM models, empowers data scientists, engineers, and analysts to unlock insights from data faster than ever, allows them to focus on deeper analysis and strategic decision-making. Imagine asking questions in plain English, having them translated into SQL query and python script on the fly, then receiving results in informative texts and visual plots.

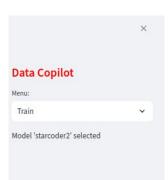
Tech-stack:

- RAG
- Vanna.Al
- Ollama
- Streamlit

How Vanna works



Deploy



Manage Training Data

Show Training data

Show

	id	question	content	training_data_type
0	044ba63a-a15d-5339-b4f1-950e93c541be-ddl	None	CREATE TABLE [Invoice] ([InvoiceId] INTEGER NOT NULL, [CustomerId] INTEGER	ddl
1	291a67cf-a386-5e8a-b858-dee5a9060a31-ddl	None	CREATE TABLE [Artist] ([ArtistId] INTEGER NOT NULL, [Name] NVARCHAR(120),	ddl
2	3337d9c1-6447-541d-b8d3-9a90f3f85fc8-ddl	None	CREATE INDEX [IFK_AlbumArtistId] ON [Album] ([ArtistId])	ddl
3	344578ab-d80f-52d4-976e-78a3e54d3c6d-ddl	None	CREATE TABLE [Employee] ([Employeeld] INTEGER NOT NULL, [LastName] NVAR	ddl
4	3858dfec-459a-53b5-afc9-8d854748161f-ddl	None	CREATE TABLE [MediaType] ([MediaTypeId] INTEGER NOT NULL, [Name] NVARCH	ddl

Add Training data

DDL script

CREATE TABLE IF NOT EXISTS t_person (
id INT PRIMARY KEY,
name text,
email text

Add DDL script

SQL query

select * from t_book;

Add SQL query

Documentation

table "t_book" stores information on book title and author

X Deploy

Data Copilot

Menu:

Ask Al

Model 'starcoder2' selected

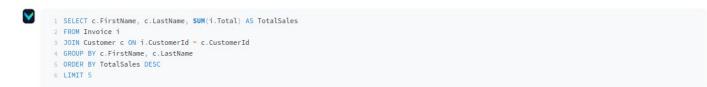
Output Settings

- Show SQL Query
- Show Dataframe
- Show Python Code
- Show Plotly Chart
- Show Summary

Reset

Ask Al

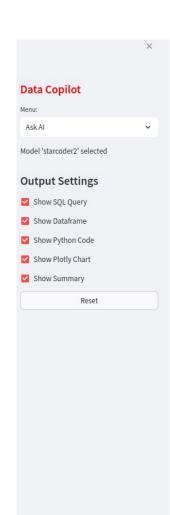
What are the top 5 customers by sales



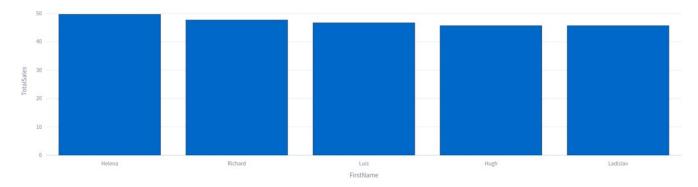


Ask me a question about your data

>

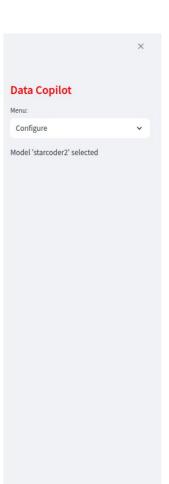


Top 5 Customers by Sales



The top 5 customers by sales are Helena Holý, Richard Cunningham, Luis Rojas, Hugh O'Reilly, and Ladislav Kovács.

Ask me a question about your data



Configure

Select an LLM Model:

starcoder2

starcoder2

sqlcoder

duckdb-nsql

wizardcoder

llama3

gemma:7b

gemma:2b

Resources

- Vanna.AI (https://github.com/vanna-ai/vanna): Chat with Data
- Ollama (https://ollama.com/): private open-source LLM
- Streamlit (https://streamlit.io/): build data apps faster
- Number Stations (https://numbersstation.ai/): AI-native Data Analytics
- DuckDB (https://duckdb.org/): Fast in-memory OLAP