

NLP Prompt to SQL

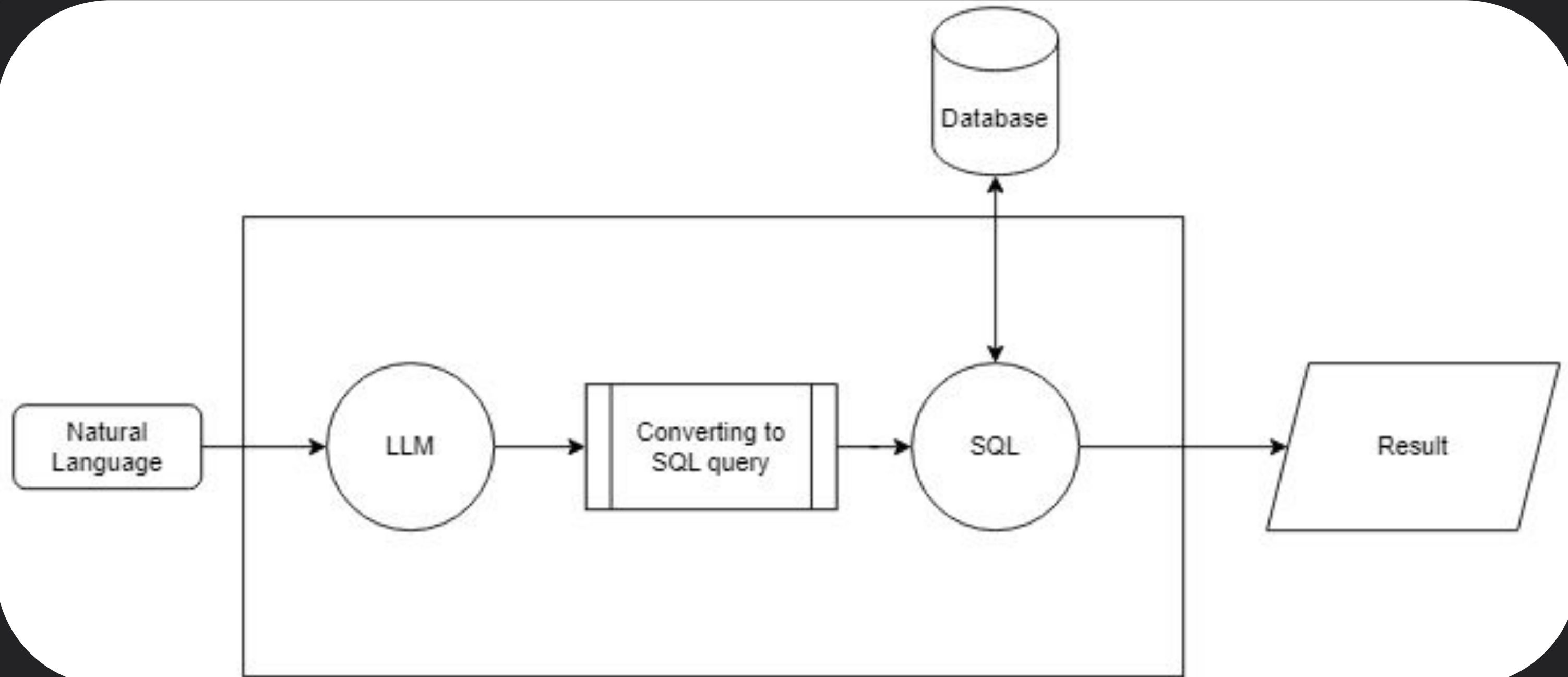
OVERVIEW

01 PROCESS

02 PROJECT

03 SCOPE

PROCESS



GUI: Python using Streamlit

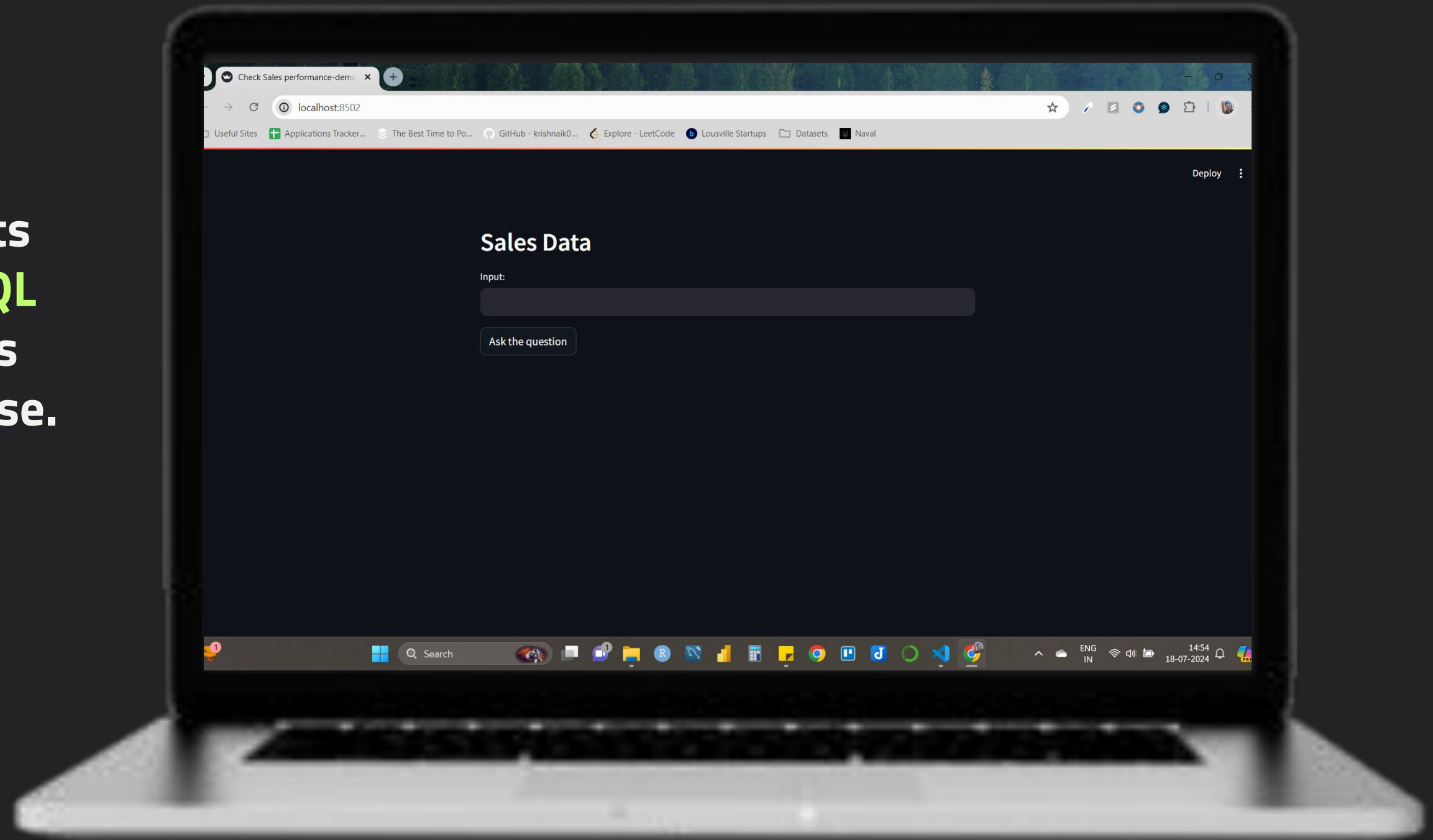
Data: Database was created from a CSV file to a sqlite3 database.

LLM: Used Google Gemini's API Key. A prompt was given to the LLM to train it for the kind of input it was going to process and the output that was expected.

Results: You can see the results in the next part!

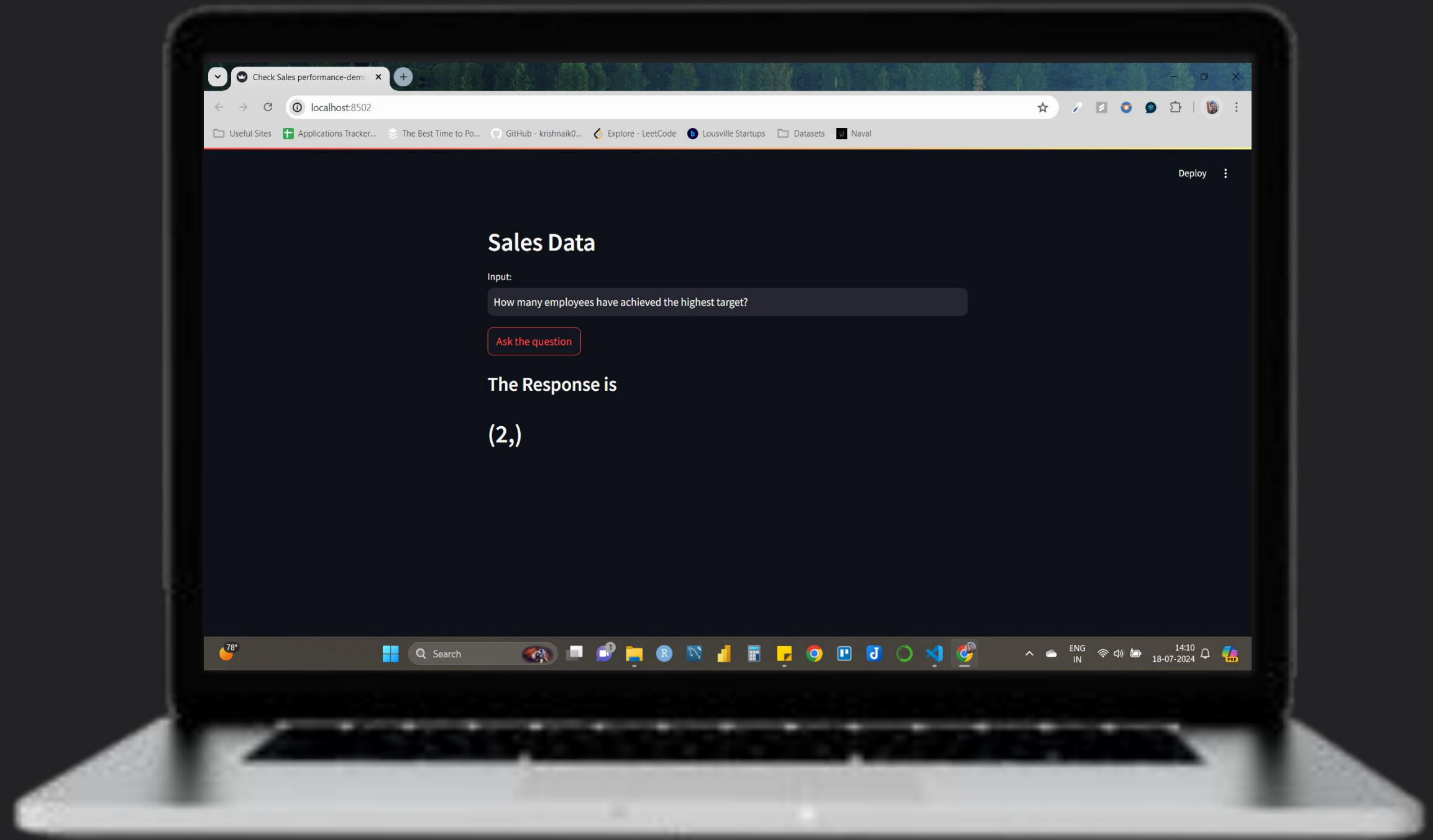
PROJECT

A chatbot which converts **natural language into SQL statements** that queries data from a given database.



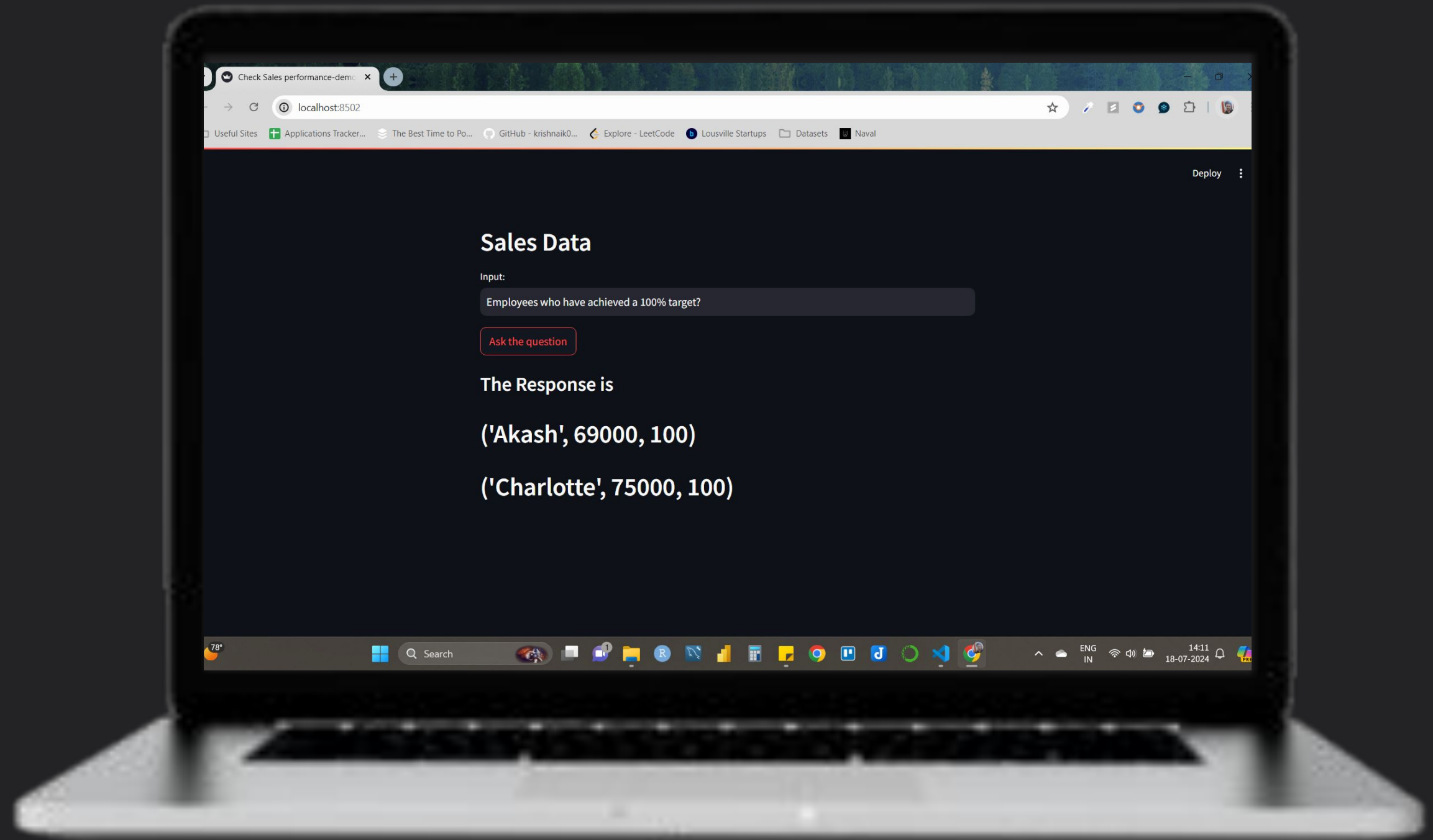
PROJECT

Ex: 1



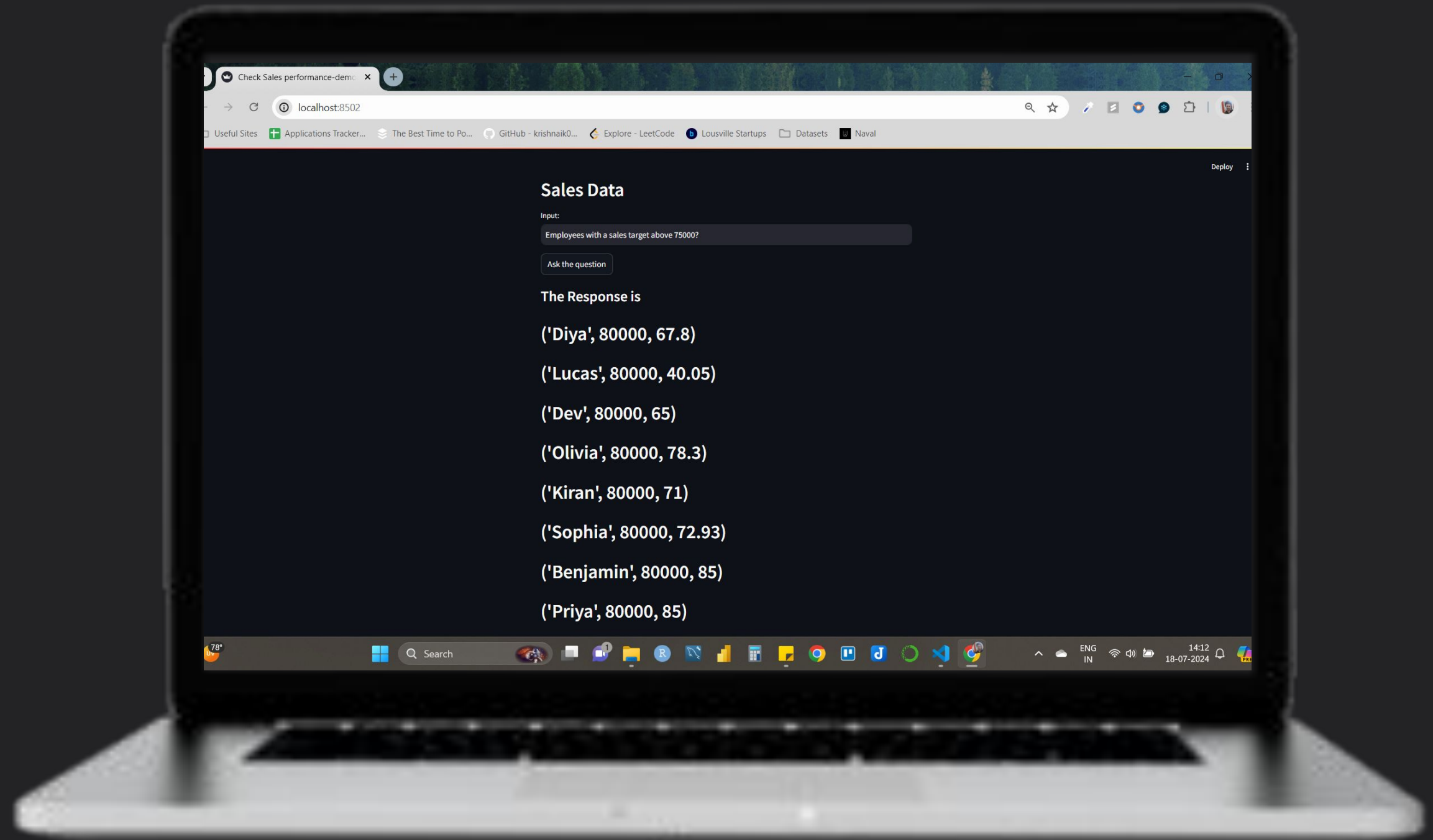
PROJECT

Ex: 2



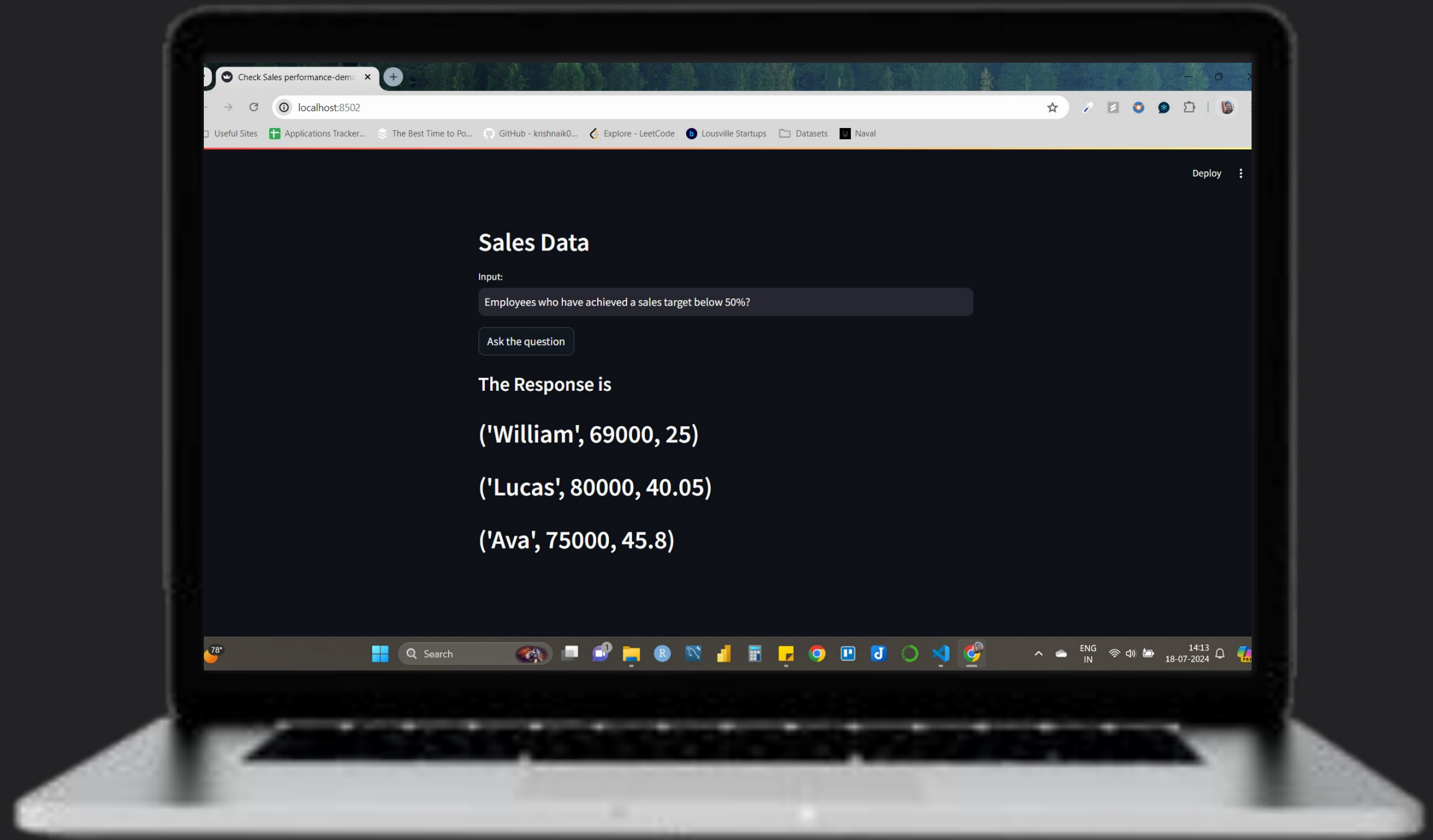
PROJECT

Ex: 3



PROJECT

Ex: 4



PROJECT

The Dataset

Name	Target_sales	Target_achieved
Veer	75000	88.2
William	69000	25
Rahul	75000	50
Anjali	75000	75
Emma	69000	69.6
Diya	80000	67.8
Lucas	80000	40.05
Akash	69000	100
Charlotte	75000	100
Rishi	75000	95.47
Noah	75000	67.8
Dev	80000	65
Olivia	80000	78.3
Tara	69000	59.3
Ethan	75000	80
Ava	75000	45.8
Kiran	80000	71
Sophia	80000	72.93
Benjamin	80000	85
Priya	80000	85

SCOPE

Such applications can be used for a large set of records and with various data sources including cloud services like AWS, Azure, etc. This can change the way we use FAQ questions, database information retrieval and customized company resources!

The Boxers

Input:

Tell me the fighters with a 100% KO rate

Search

The Response is

('Juan Rolando Zorrilla', 1, 0, 0, '100%', 'Orthodox', '24', 'Paraguay')

('William Zepeda', 10, 0, 0, '100%', 'Orthodox', '26', 'Mexico')

('Danilo Vaca', 1, 0, 0, '100%', 'Orthodox', '25', 'Bolivia, Plurinational State of')

('Panagiotis Tsochataridis', 1, 0, 0, '100%', 'Orthodox', '25', 'Greece')

('Marcos Agustin Taucher', 1, 0, 0, '100%', 'Orthodox', '20', 'Argentina')

Thank you!

