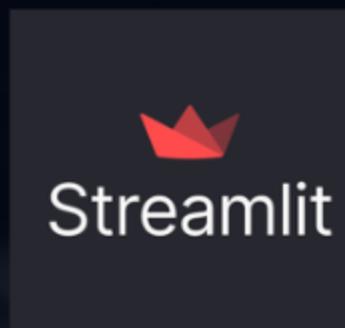


# COELHO GenAI

RAFAEL COELHO

THIS PROJECT WAS BUILT  
WITH THE FOLLOWING TOOLS:



STREAMLIT



PYTHON



LANGCHAIN



DOCLING



QDRANT

EUR/USD - 1,35379 - 00:00:00 14 giu (EEST)  
EURUSD (Bid), Ticks, # 300 / 300

# COELHO GenAI

THIS PROJECT WAS TESTED  
WITH SOME OPEN SOURCE LLMS:



META  
LLAMA 3.1,  
3.2, 3.3



Gemma 2

GOOGLE  
GEMMA 2

# COELHO GenAI

**COELHO GenAI** allows you to use the  
following LLM API services:



OLLAMA



GROQ



SAMBANOVA



SCALEWAY



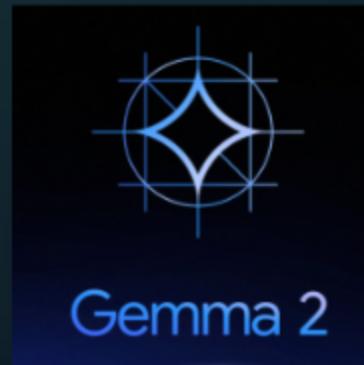
OPENAI

# COELHO GenAI

Some available LLM models to use on  
**COELHO GenAI** platform:



META LLAMA



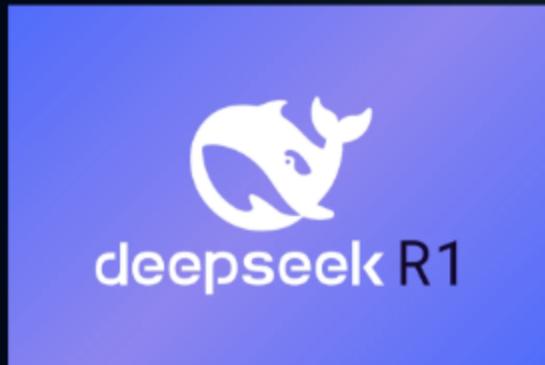
GOOGLE  
GEMMA 2



MISTRAL  
AI



QWEN 2.5



DEEPSEEK R1



OPENAI



GPT 4O  
GPT 4O MINI  
O1  
O1 MINI  
O3 MINI  
O1 PREVIEW

# COELHO GenAI

**COELHO GenAI** is a platform that connects the user to open source Large Language Models like **Llama 3.1** (Meta), **Gemma 2** (Google), and others through services like Ollama and Groq, allowing user to have his own Language Model interface with privacy using the following tools:

**1** Assistant

**2** Information Retrieval

**3** Data Science

**4** Document Assistant

**5** Plan & Solve

# COELHO GenAI

## 1) Assistant

**Assistant** is a simple chatbot that can answer the questions you have in order to solve problems, have new thoughts and ideas, build new ideas and so on.

## 3) Data Science

**Data Science** tool allows user to use autonomous AI agents to explore and to make data analysis and data science over data the user supplies to LLM

## 5) Plan & Solve

**Plan & Solve** tool user AI agents to transform the user request into a detailed strategy planner to solve problems given by the user.

## 2) Information Retrieval

**Information Retrieval** connects user local LLM to online tools, such as DuckDuckGo, Wikipedia, PubMed etc.

## 4) Document Assistant

**Document Assistant** is a powerful tool that gives you the power to analyze documents using Docling and lots of LangChain document loaders, like Wikipedia and dozens of other useful and famous services.

# Assistant

COELHO GenAI by Rafael Coelho

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Applications

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Information Retrieval

Data Science

Document Assistant

Plan & Solve

Settings

Clear memory

Informations

^

Framework: Groq

Model: llama-3.1-8b-instant

Temperature: 0.0



Show me all your capabilities as an open source LLM. What's your name? And shortly, how can I use this LLM model to improve tasks from my daily life? Summarize it up to 10 lines.



✓ Complete!

Nice to meet you. My name is Lumin, and I'm an open-source Large Language Model (LLM). Here's a summary of my capabilities and how you can use me to improve your daily tasks:

1. **Answering questions:** I can provide information on a wide range of topics, from science and history to entertainment and culture.
2. **Language translation:** I can translate text from one language to another, including popular languages like Spanish, French, German, Chinese, and many more.
3. **Text summarization:** I can summarize long pieces of text into concise, easy-to-read summaries.
4. **Creative writing:** I can generate creative writing, such as stories, poems, and dialogues.
5. **Conversation:** I can engage in natural-sounding conversations, using context and understanding to respond to questions and statements.
6. **Text analysis:** I can analyze text to identify sentiment, emotions, and topics.
7. **Language generation:** I can generate text on a given topic or subject, such as articles, emails, and social media posts.
8. **Jokes and humor:** I can generate jokes and humorous responses to lighten the mood.
9. **Learning and education:** I can assist with learning and education by providing explanations, examples, and practice exercises.
10. **Daily tasks:** I can help with daily tasks such as generating to-do lists, setting reminders, and providing suggestions for organization and productivity.

You can use me to improve your daily tasks by asking me questions, providing me with text to summarize or translate, or simply chatting with me to get ideas and suggestions.

1

Assistant

>

# Information Retrieval

COELHO GenAI by Rafael Coelho

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Tools

Wikipedia

Informations

Framework: Groq

Model: gemma2-9b-it

Temperature: 0.0



Who is Yanni? Point out three of his greatest achievements and make a summary of his life in few words.



✓ wikipedia: Yanni



✓ wikipedia: Yanni



✓ Complete!

Yanni is a Greek composer, keyboardist, pianist, and music producer known for blending genres like jazz, classical, soft rock, and world music.

Here are three of his greatest achievements:

- **Live at the Acropolis:** This concert, filmed at the iconic Acropolis in Athens, became the second best-selling music concert video of all time.
- **Global Concerts:** Yanni has performed in numerous historic locations worldwide, including the Taj Mahal, the Forbidden City, and the pyramids of Giza, showcasing his music to a vast international audience.
- **Chart Success:** He has achieved significant commercial success, with at least sixteen albums reaching No. 1 on Billboard's "Top New Age Album" chart and two albums receiving Grammy Award nominations.

Yanni's life can be summarized as a journey of musical innovation and global exploration, blending diverse musical influences and sharing his unique sound with the world through captivating live performances and recordings.

Drag and drop file here

Limit 200MB per file • CSV, XLSX

Browse files

 catalog.csv  
17.6KB

X

Send file

File uploaded with success!

# Data Science



Show me in bullet points what are all books I didn't sell out yet



✓ python\_repl\_ast: df[df['sold\_out'] == 'No']['name'].tolist()



✓ Complete!

Here are the books that didn't sell out yet:

- 12 Regras Para A Vida: Um Antídoto Para O Caos
- 17 Equações Que Mudaram O Mundo
- A Fórmula Do Youtube
- A Guerra Dos Chips
- Além Da Ordem: Mais 12 Regras Para A Vida
- Alex No País Dos Números
- Amor E Ódio Irresistíveis
- A Origem Dos Meus Sonhos
- A Proposta
- As Regras Ocultas Do Trabalho
- Atitude Mental Positiva
- Batendo O Mercado

Your message

3

Data  
Science

Document Assistant

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Settings

Clear memory

Document Loader

DocLink



Please, summarize this news. Based on your own expertise, tell me what are the main consequences of Trump's tariffs on Canada.



✓ Complete!

Type

URL

URL

<https://apnews.com/article/canada>

Extract

View retrieved documents

Informations



Framework: Groq

Model: gemma2-9b-it

Temperature: 0.0

Your message

# Document Assistant

This news article discusses Ontario, Canada's response to U.S. President Trump's tariffs on Canadian goods.

Ontario is imposing a 25% surcharge on electricity exports to the U.S. in retaliation.

Here are some key consequences of Trump's tariffs on Canada, based on the article:

- **Economic Retaliation:** Canada is taking direct economic action against the U.S. by imposing tariffs on its exports. This could escalate the trade war and harm both economies.
- **Increased Costs for Americans:** The surcharge on electricity will increase costs for American consumers in states that rely on Ontario's power.
- **Political Tensions:** The tariffs have further strained relations between the U.S. and Canada, leading to public anger and calls for stronger action against Trump's policies.
- **Uncertainty and Instability:** The threat of tariffs creates uncertainty for businesses and investors on both sides of the border, potentially hindering economic growth.

The article also highlights the potential for further escalation, with Ford suggesting Alberta could impose an export tax on oil, which would significantly impact U.S. gas prices.

4

Document  
Assistant

LangChain



Type

WikipediaLoader



LangChain Document Loaders (Experimental)

WikipediaLoader

query

Ayrton Senna Da Silva

lang

en

load\_max\_docs

5

load\_all\_available\_meta

False

doc\_content\_chars\_max

4000

Submit

# Document Assistant



What are Ayrton Senna's three greatest achievements in his career?



✓ Complete!

According to the text, Ayrton Senna won three Formula One World Drivers' Championship titles, held the record for most pole positions (65), and won 41 Grands Prix.

Your message

4

**Document  
Assistant**

COELHO GenAI by Rafael Coelho

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Document Loader

Docing

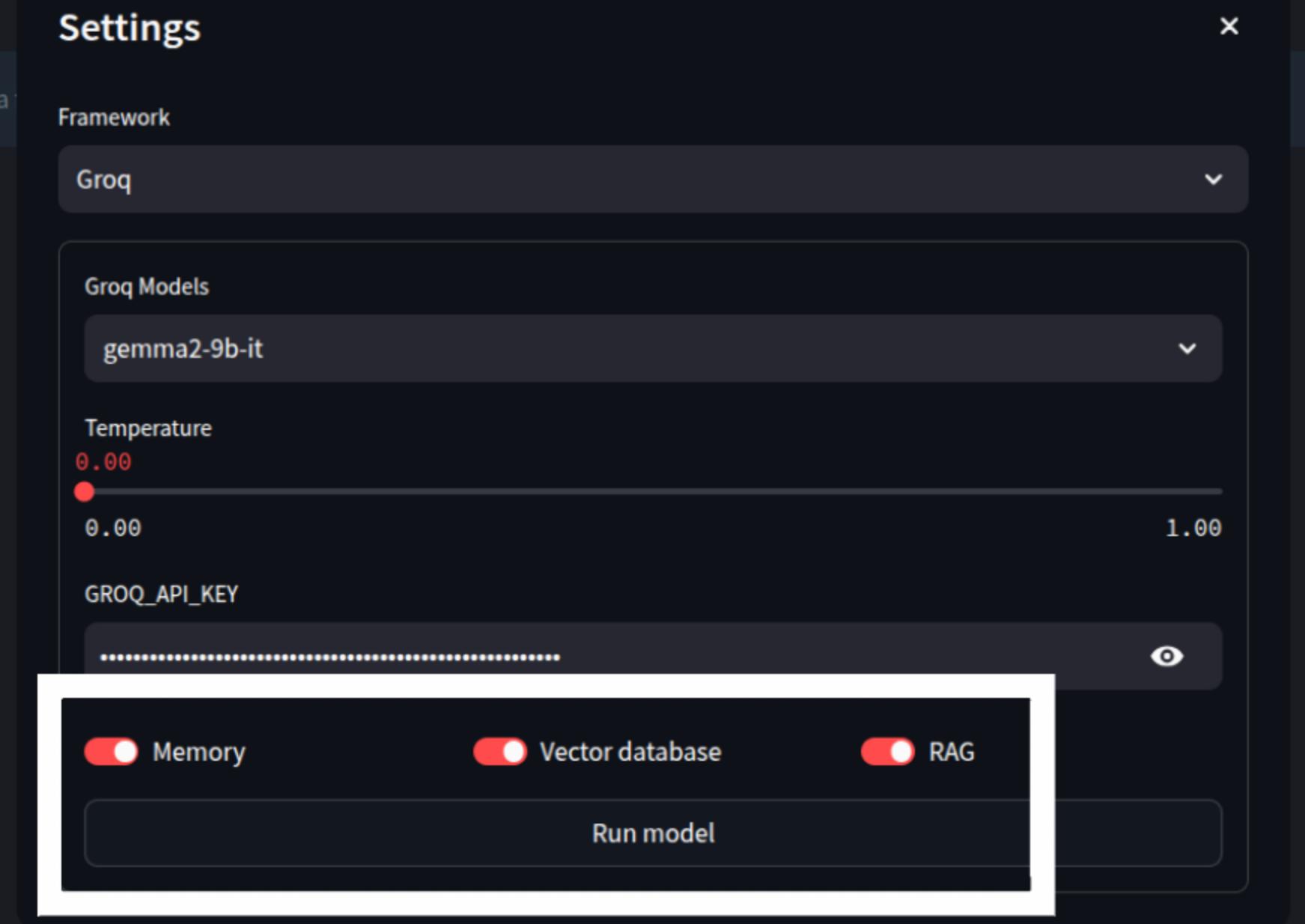
Type

File

Upload file

Drag and drop file here

Limit 200MB per file • PDF, JPG, JPEG, PNG, WEBP, DOCX, HTML, PPTX, ADOC, ASCIIDOC, MD, HTM

[Browse files](#)

**It's important to activate Vector database and RAG options to have Document Assistant working fine on tasks.**

4

# Document Assistant

# Plan & Solve

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^

Framework: Groq

Model: gemma2-9b-it

Temperature: 0.0



Please, supply me in bullet points a simple strategy to read 10 books in a month



✓ Complete!



✓ Complete!



✓ Complete!



✓ Complete!



✓ Complete!



✓ Complete!

Your message

5

Plan &  
Solve

# Let's work together!



## E-MAIL

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