

Vodafone & Google Hackfest

# NewsLetter.AI

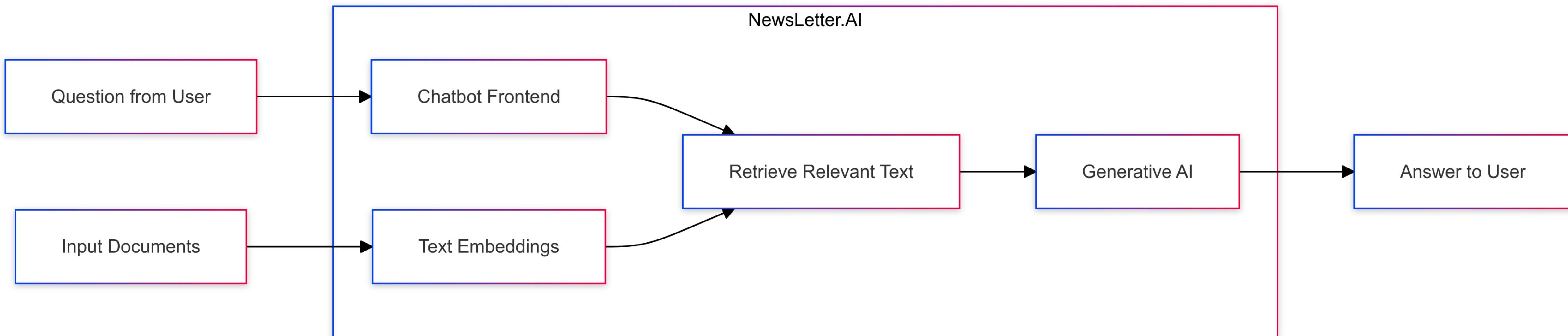
Chat with your documents using Gen AI.

Cloud Code Crafters

Sep 18, 2024

# How NewsLetter.AI works

Simple, secure and scalable



[Link to the Chatbot](#)

[Link to Code](#)

# **Vodafone Values**

## **Customer**

- Any kind of Document
- Any kind of Platform
- Any kind of Team

## **Simplicity**

- Easy to use
- Easy to operate
- Quick document insights

## **Growth**

- Increased productivity
- Faster time-to-market
- Enable innovation

# Uniqueness of NewsLetter.AI Technology

[Link to detailed list](#)

<b>01</b> Language Model Flexibility  Select models based on speed or quality.	<b>02</b> Source Transparency  Indicates the source document from which the answer was sourced.	<b>03</b> Smart Indexing  Adaptive indexing based on size of input documents.	<b>04</b> Efficient Caching  Multi-tier cache to boost retrieval times for queries.
<b>05</b> Dynamic Cache Updates  Auto-refresh caches when content changes (files added/edited/removed).	<b>06</b> Automated Deployment  CI/CD pipeline triggered for auto-deployment for each code commit.	<b>07</b> Scalable Environment  Scale on-demand based on workload with Google Cloud Run.	<b>08</b> Model Integration  Choose any Model from Model Garden without any restrictions.

# Agenda

NewsLetter.AI

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## 1 The Pitch

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## 2 The Team

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## 3 About NewsLetter.AI

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## 4 Uniqueness of NewsLetter.AI

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## 5 Explanations for complex terms

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## 6 Demo, Questions & Contacts

# The Pitch

NewsLetter.AI

The Problem	The Solution	Value Proposition
<p>Company newsletters can flood employees with too much information every week.</p> <p>It is hard to read everything or find past newsletters.</p> <hr/>	<p>Newsletter.AI is a chatbot that uses retrieval-augmented generation (RAG) to process and search newsletters.</p> <p>Employees ask questions and receive answers from the chatbot about Newsletters.</p> <hr/>	<p>Newsletter.AI lets you easily chat with past and present newsletters using Generative AI.</p> <p>It lets you find important info, even if you do not use exact words.</p> <hr/>
<p>A tool that lets employees "chat" with current and past newsletters would be really helpful.</p>	<p>Tech Stack</p> <ul style="list-style-type: none"><li>• Google Gemini LLM, Cloud Run</li><li>• Streamlit, LangChain</li><li>• HuggingFace, Facebook AI</li></ul>	<p><b>All Documents Supported</b></p> <p>Newsletter.AI processes any document type, including non-newsletters, with no code changes required.</p>

# The Team



Kunal Pathak

AI/ML



Benjamin Bathen

Cloud



Dhirain Kirti Jain

DevOps



Rafael Krysciak

Python



Frank Mieves

Python



Arushi Arushi

Python

# Simple Explanations

Breakdown of complex terms used in this presentation.

1

## Prompt Engineering

"Prompts" are questions you ask a Gen AI model. To get better answers, you must "engineer" or "refine" them. Details [here](#).

2

## Fine-tuning

Fine-tuning makes an AI model better at specific tasks. [Link](#) to further explanation.

3

## Retrieval-Augmented Generation

RAG combines retrieving relevant documents and generating responses. More details [here](#).

4

## Vector Database

Stores data to easily find similar items. Handy for recommendations like those on Amazon. Image [link](#).

# Demo & Questions

Reach out to [Kunal.Pathak@vodafone.com](mailto:Kunal.Pathak@vodafone.com) to see how NewsLetter.AI or other similar AI/ML solutions can help your use case.

# Thank You