

The background features several abstract blue watercolor-like shapes. In the top left, there are two overlapping, soft-edged shapes. In the bottom left, there is a cluster of small, dark blue dots. On the right side, there is a large, light blue shape and a series of thin, dark blue curved lines that sweep upwards.

# llama-first-aid

*Your virtual first aid assistant, powered by GenAI*

# Llama Impact Hackathon - Rome 2024

## ● Scope

Leverage AI to enhance citizens' well-being, focusing on health, social services, the environment, transportation, public safety, and public administration.

## ● Prizes

🏆 Win up to \$5,000 and chance to expand social project through the 'Llama Impact Grant' program!

★ First 2 winning teams will join the Meta & lablab NEXT digital incubation program and visit Meta research centers and meet experts, for 2 days.

## ● Stats

**411**

Participants

**72**

Teams

**39**

AI Applications



**AgID** Agenzia per  
l'Italia Digitale



**SAPIENZA**  
UNIVERSITÀ DI ROMA

<https://lablab.ai/event/hackathon-llama-impatto-roma>





# Problem

Slow response times, inadequate first aid training, emergency room overcrowding, inefficient communication during emergencies, and limited healthcare access in remote areas all significantly contribute to increased mortality rates. For example, 60,000 people die annually in Italy from cardiac arrest due to delays in receiving timely medical assistance [\[1\]](#).



# Idea

Create a simple web-based, GenAI-powered assistant that provides real-time, step-by-step first aid guidance for medical emergencies, to deliver personalized, interactive instructions and support, with features like dual input (text/audio), educational videos, and location-based assistance.





# Advantages

## **Real-Time Assistance**

Assistance, whenever and wherever you need

## **Simple & Fast Instructions**

Simple, concise, non expert responses, fast

## **Criticality understanding**

Understand criticality and handle it properly

## **Multi-Input Modality**

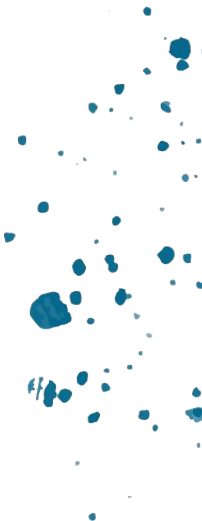
Users can reduce time to explain the issue

## **References and Analytics**

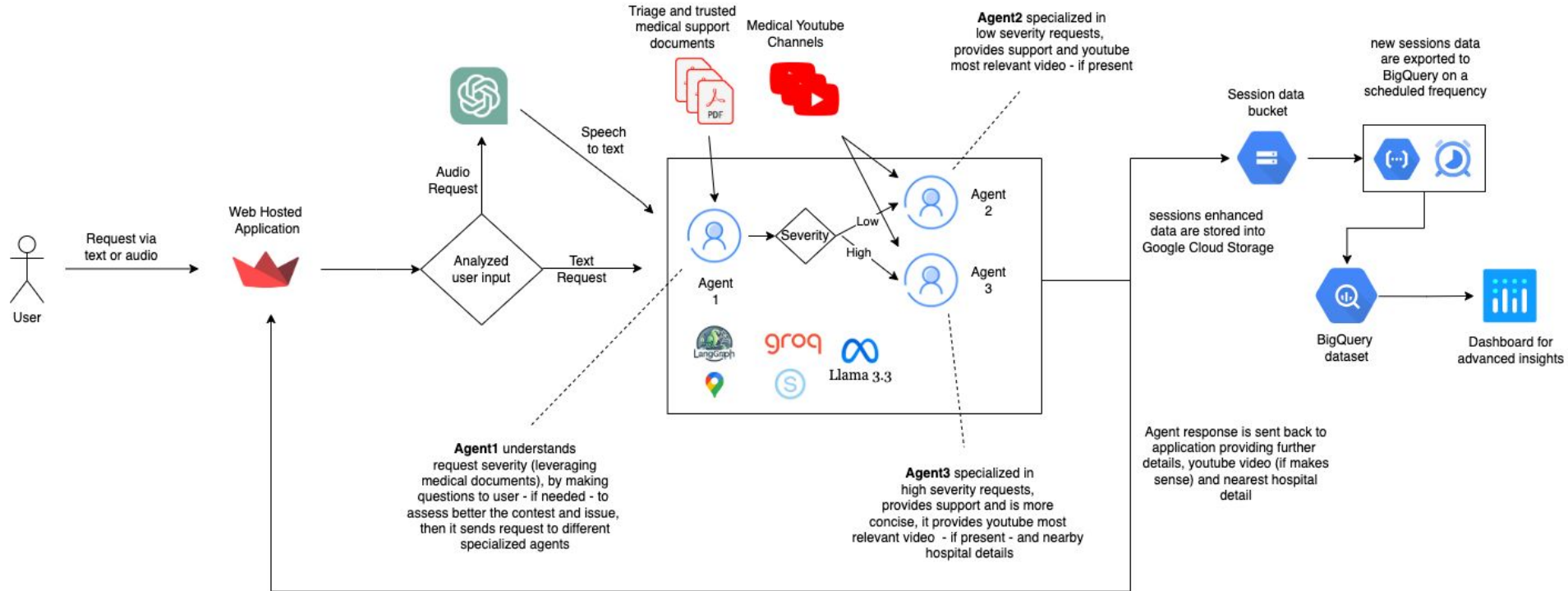
Get instructions from trusted entities, advanced analytics

## **Location Based Assistance**

Find the nearest hospital and decide



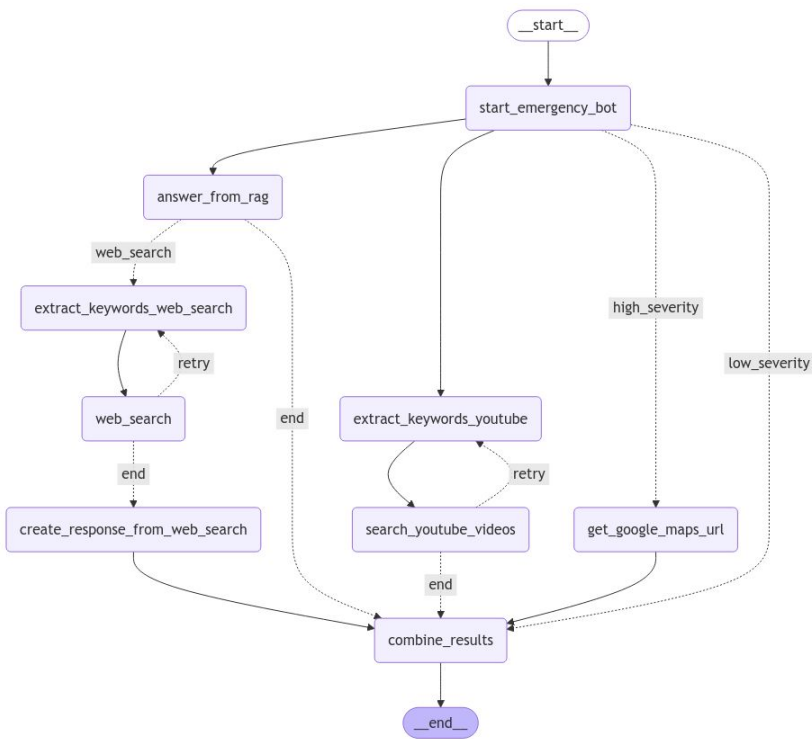
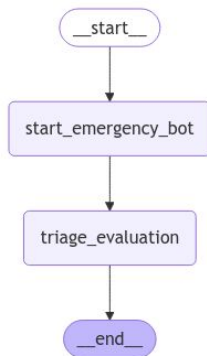
# Architecture explained



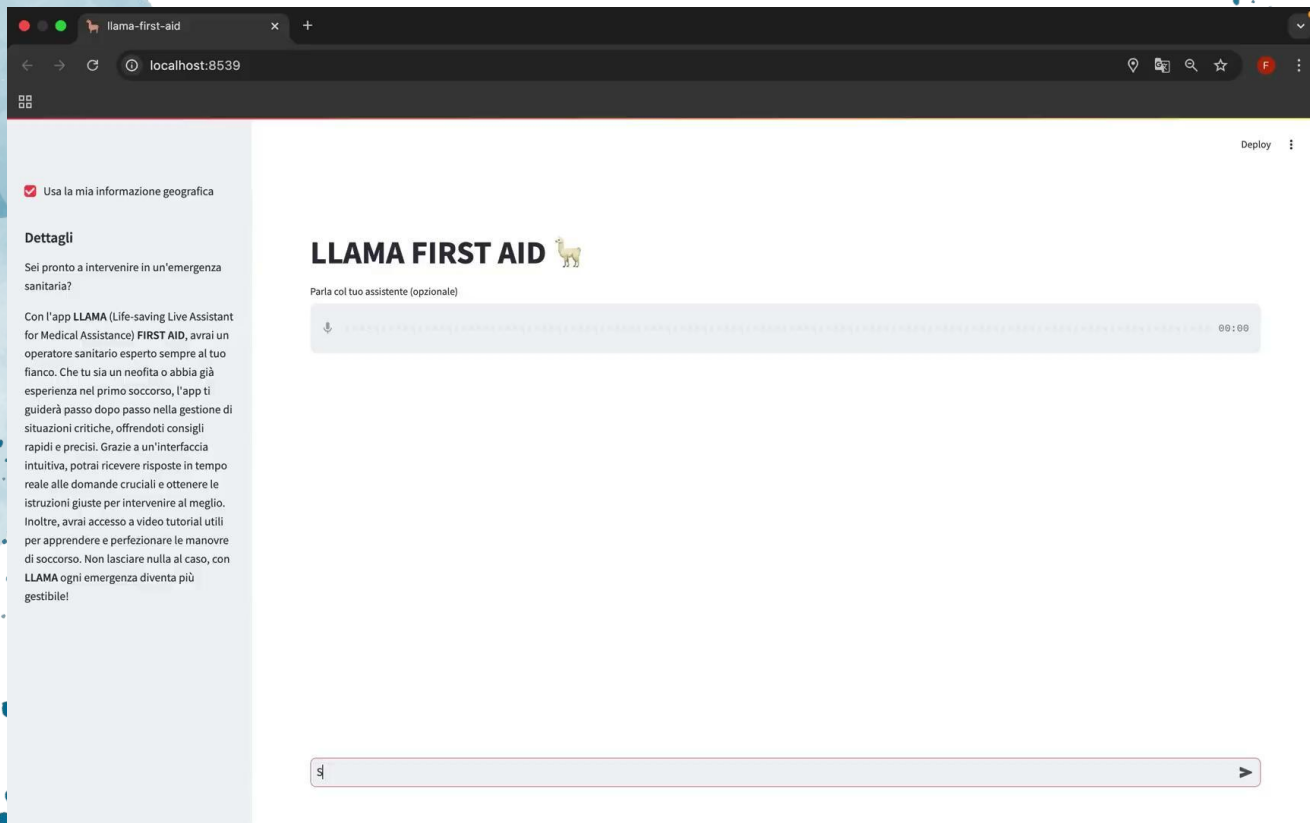
# Architecture explained: Deep-dive Agents

## Specialized Agents Graph

### Triage Agent Graph

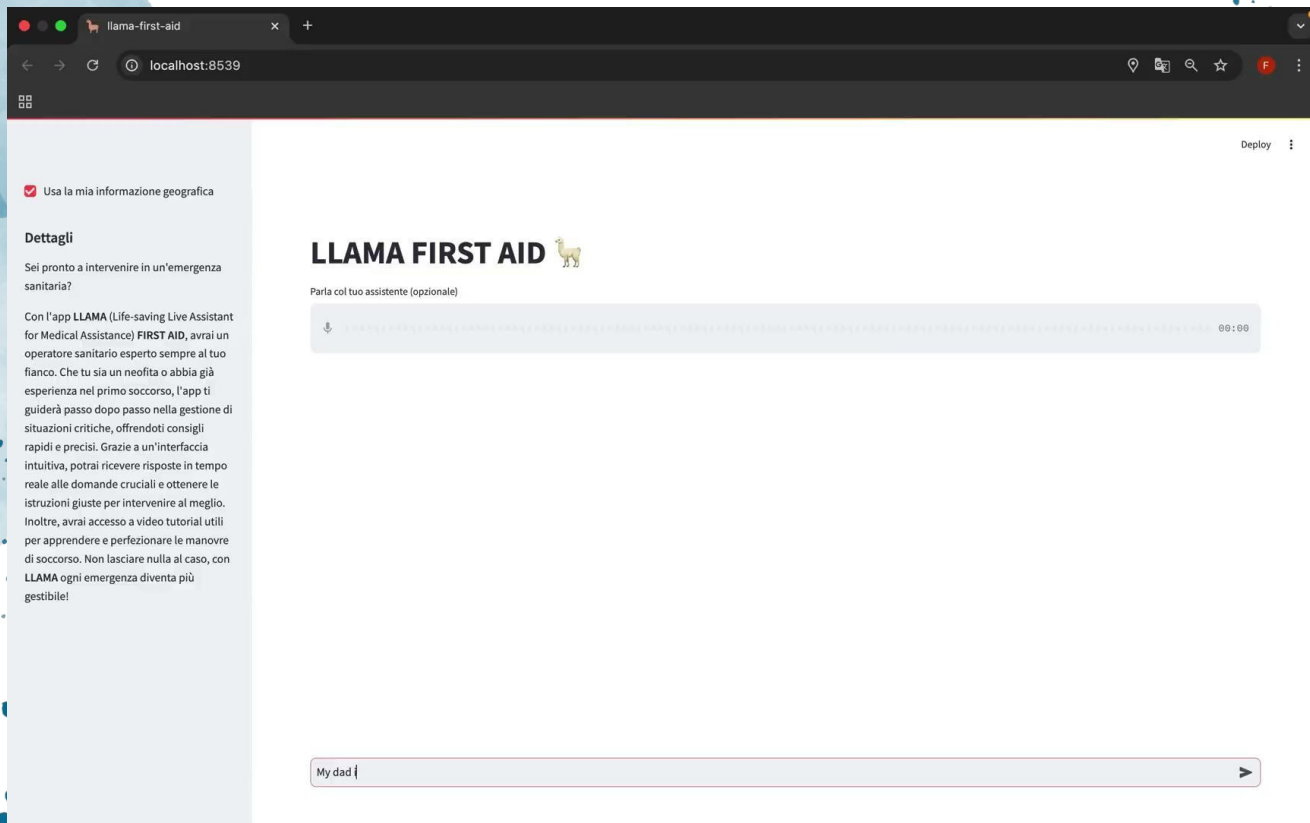


# Demo





# Demo



# Demo

llama-first-aid

localhost:8539

📍 🖨️ 🔍 ☆ F ⋮

🗖️

⌵ RUNNING... Stop Deploy ⋮


☒ Usa la mia informazione geografica

### Dettagli

Sei pronto a intervenire in un'emergenza sanitaria?

Con l'app **LLAMA** (Life-saving Live Assistant for Medical Assistance) **FIRST AID**, avrai un operatore sanitario esperto sempre al tuo fianco. Che tu sia un neofita o abbia già esperienza nel primo soccorso, l'app ti guiderà passo dopo passo nella gestione di situazioni critiche, offrendoti consigli rapidi e precisi. Grazie a un'interfaccia intuitiva, potrai ricevere risposte in tempo reale alle domande cruciali e ottenere le istruzioni giuste per intervenire al meglio. Inoltre, avrai accesso a video tutorial utili per apprendere e perfezionare le manovre di soccorso. Non lasciare nulla al caso, con **LLAMA** ogni emergenza diventa più gestibile!

## LLAMA FIRST AID




Parla col tuo assistente (opzionale)

🔊

00:00

☒ Sto avendo un attacco di panico ma non riesco a capirne il motivo.

☐ Sto pensando per capire la gravità della situazione...



Descrivi il problema o la situazione di emergenza

▼



# Future expansions

## Image Upload


Improve situational analysis, letting the experience faster

## Evaluation & Guardrails

Ensure and evaluate accuracy, safety, and relevance

## Alerting

Generate alerts for hospitals in critical emergencies





# Cassiopeia Team Members



**Davide Galassetti**

Senior Data Scientist  
CEO



**Francesco Amato**

Advanced Data Scientist  
CTO

# References



<https://github.com/Amatofrancesco99/llama-first-aid>



<https://llama-first-aid.streamlit.app/>



# Thanks

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