

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>

The background of the slide features abstract blue watercolor washes and dark blue line art. On the left, there are several curved, parallel lines. In the center and right, there are irregular, organic shapes in various shades of blue, some with smaller, darker blue dots scattered around them.



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

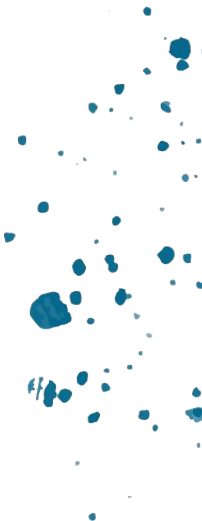
Users can reduce time to explain the issue

References and Analytics

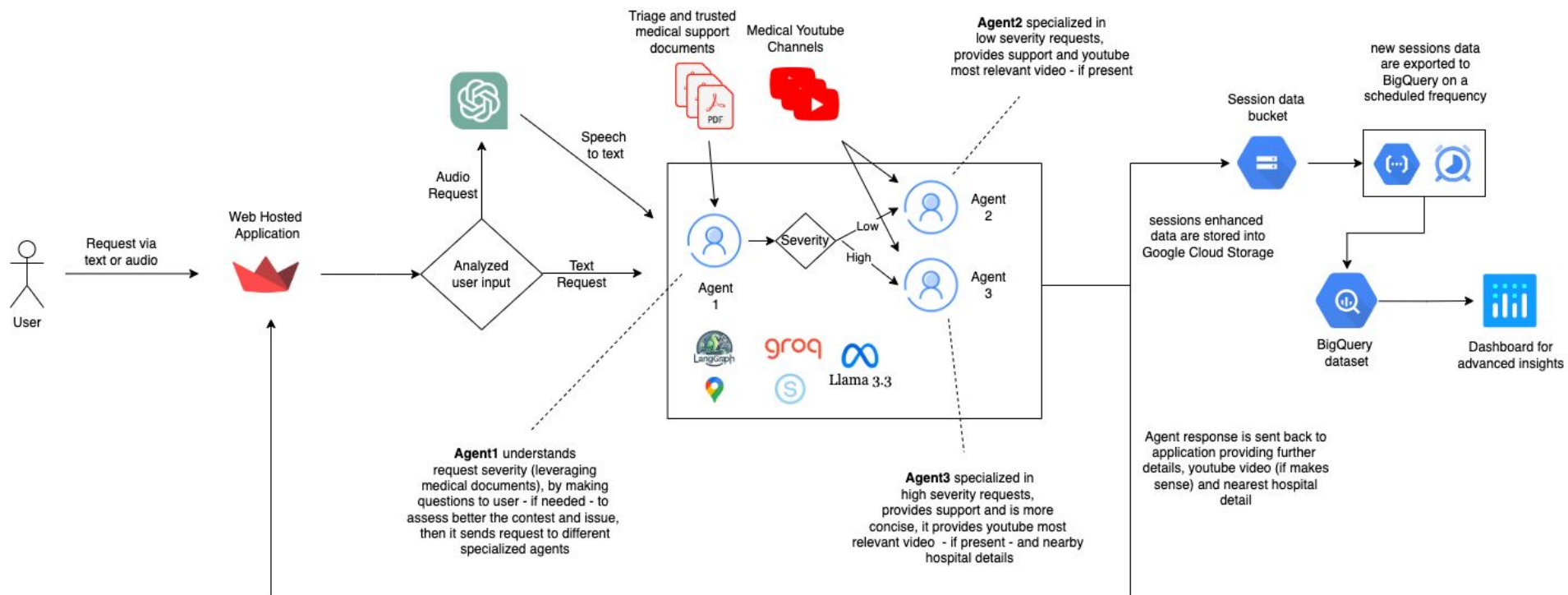
Get instructions from trusted entities, advanced analytics

Location Based Assistance

Find the nearest hospital and decide



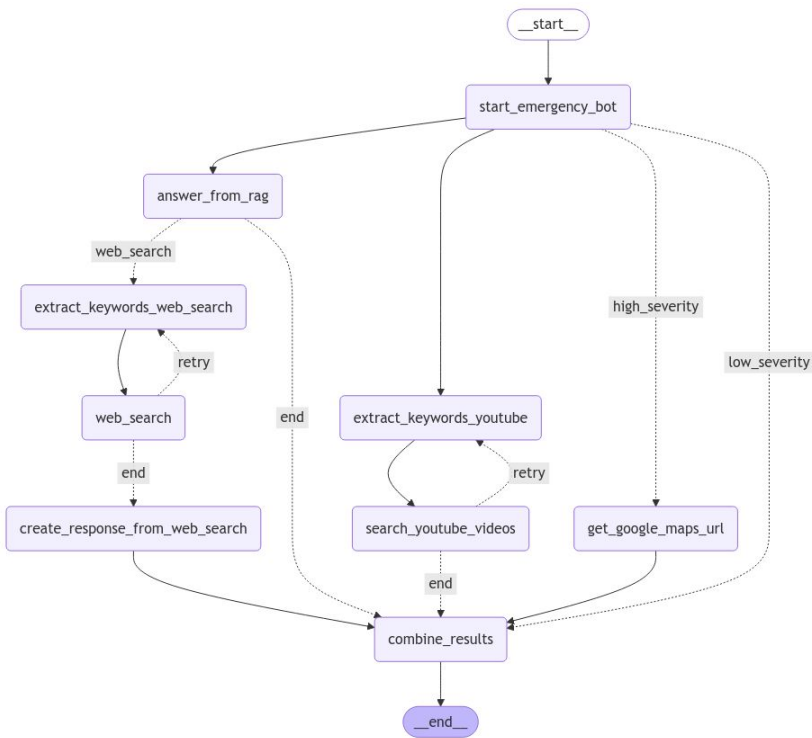
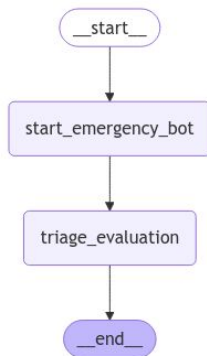
Architecture explained



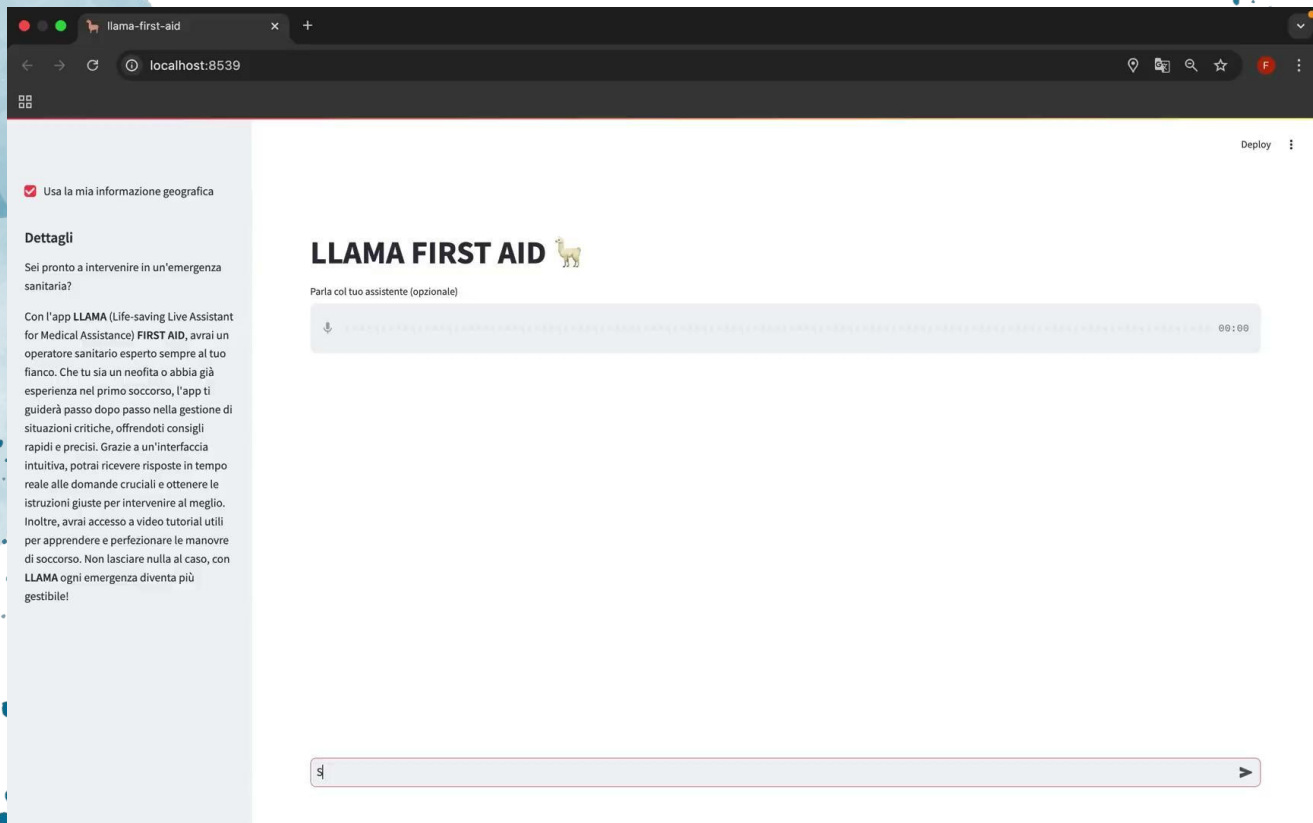
Architecture explained: Deep-dive Agents

Specialized Agents Graph

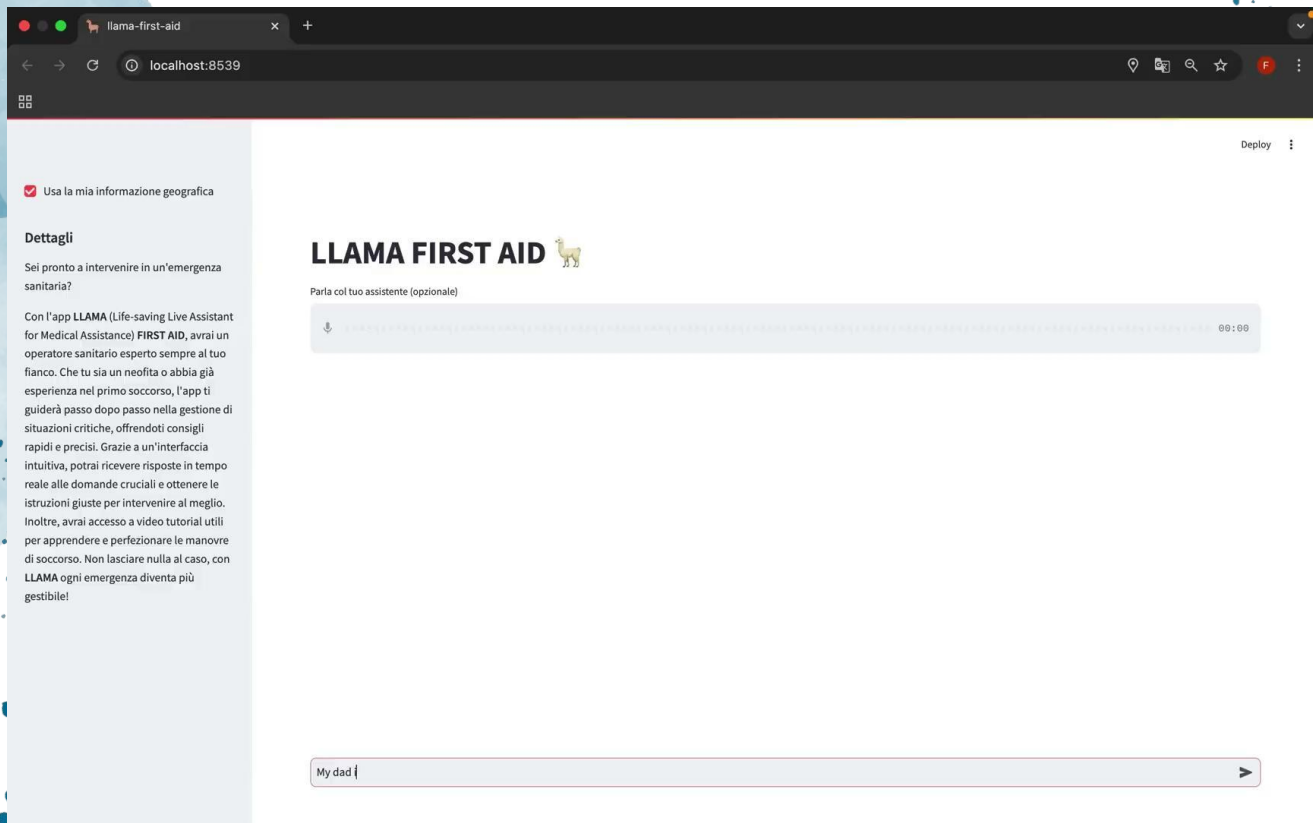
Triage Agent Graph



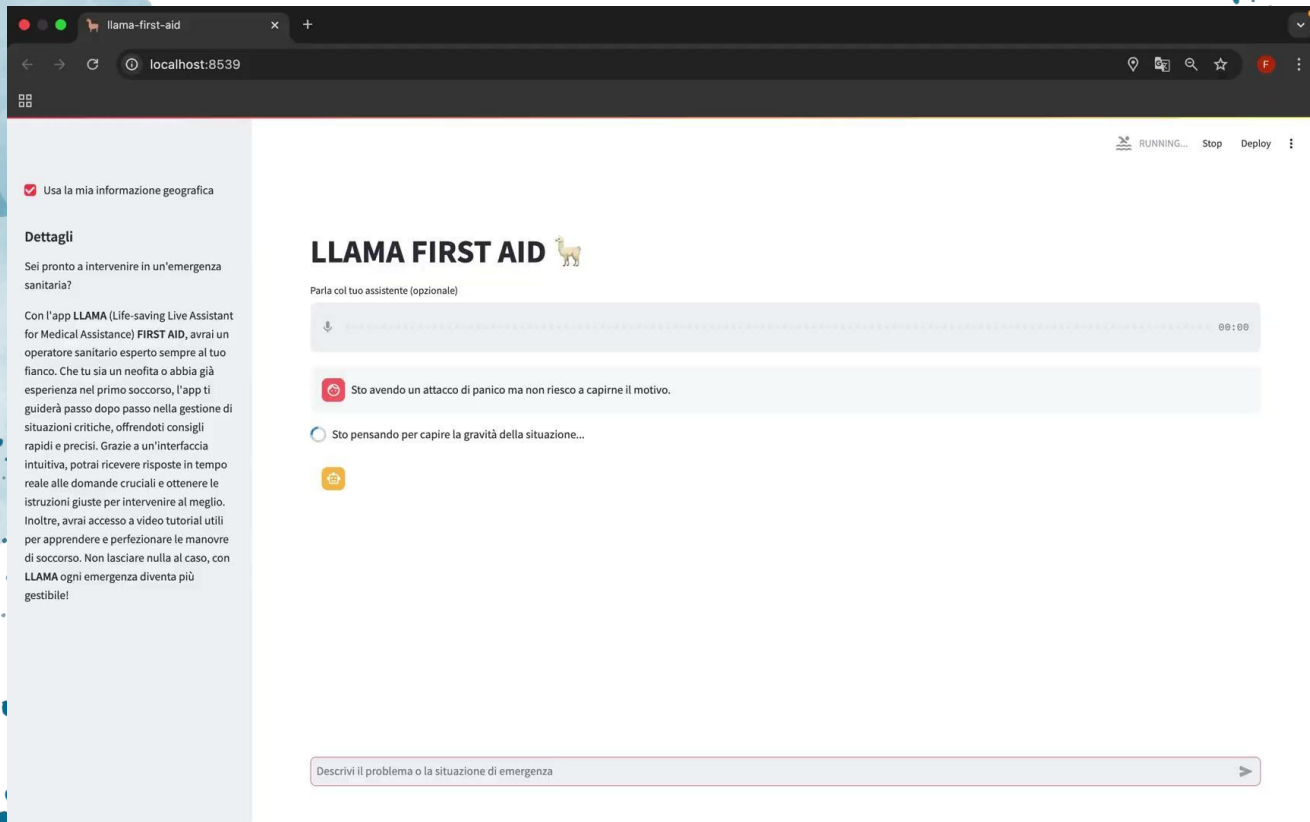
Demo



Demo



Demo





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



Francesco Amato

Advanced Data Scientist

References



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



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



Thanks

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