



**Over 211 million  
people are affected  
by disasters  
annually (UN OCHA,  
2023)**

# SafeGuardianA

A natural disaster response  
assistant in your pocket.



Sinan Robillard - [sinanrobillard@gmail.com](mailto:sinanrobillard@gmail.com)

Andrew Herr - [\\_latticeworks225@gmail.com](mailto:_latticeworks225@gmail.com)

Arslan Ali: [arslanali19470@gmail.com](mailto:arslanali19470@gmail.com)

Khawaja Fashi ud din Abdullah: [khawajafashi9623@gmail.com](mailto:khawajafashi9623@gmail.com)

Brihith Shenoy – [brihithshenoy2@gmail.com](mailto:brihithshenoy2@gmail.com)





[https://docs.google.com/presentation/d/1bQbQdVdyrNmTU7D\\_63OQ.../edit?usp=sharing&docId=1bQbQdVdyrNmTU7D\\_63OQ...](https://docs.google.com/presentation/d/1bQbQdVdyrNmTU7D_63OQ.../edit?usp=sharing&docId=1bQbQdVdyrNmTU7D_63OQ...)

# SafeGuardianAI



Help rescue teams prioritise and optimise interventions



Avoid cluttering of call-centers with AI-assisted triage



On-device victim support and data-gathering

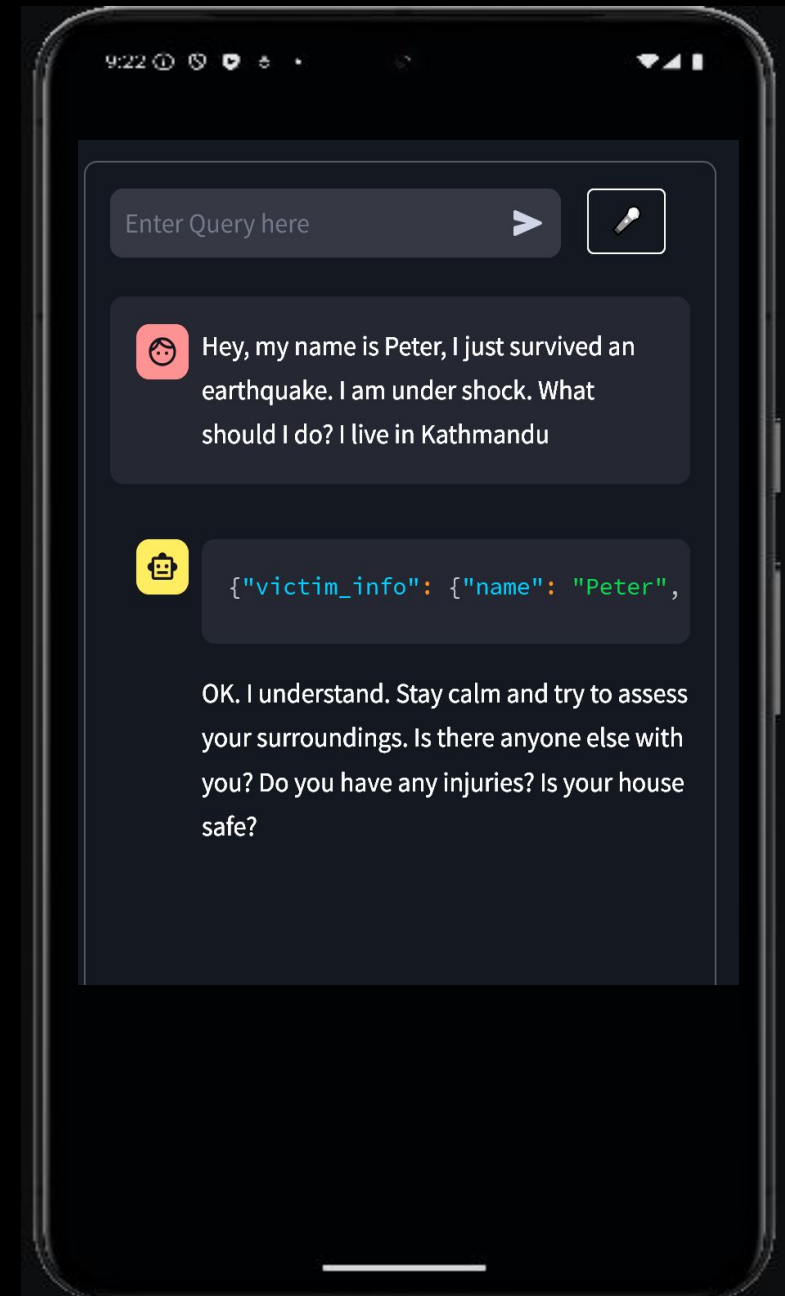


# Victim Support

Immediate support to victims through Conversational AI

Standardized data collection

AI-powered emotional and psychological assistance for victims

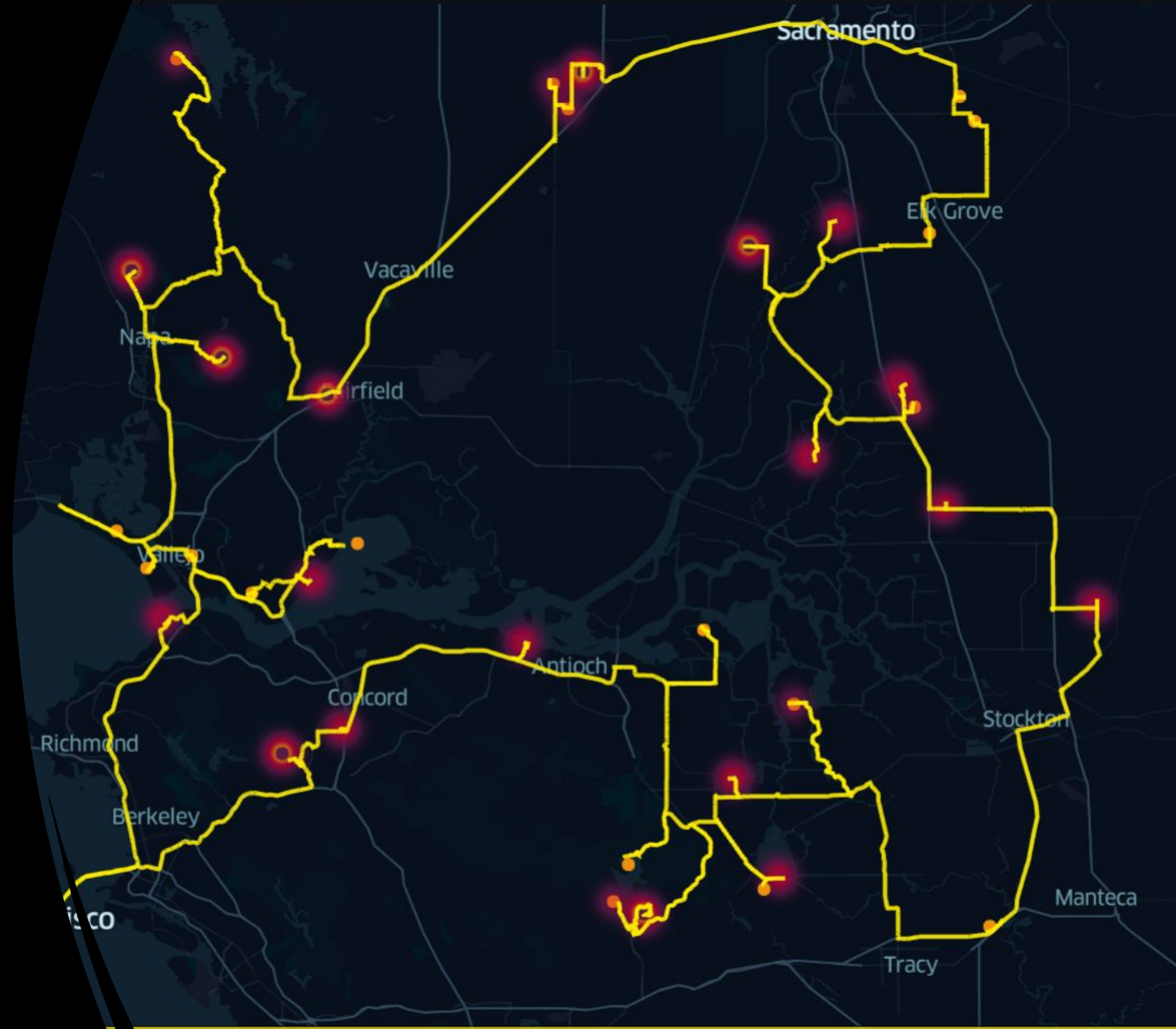


# Rescue Support

Automatic assessment  
of case severity

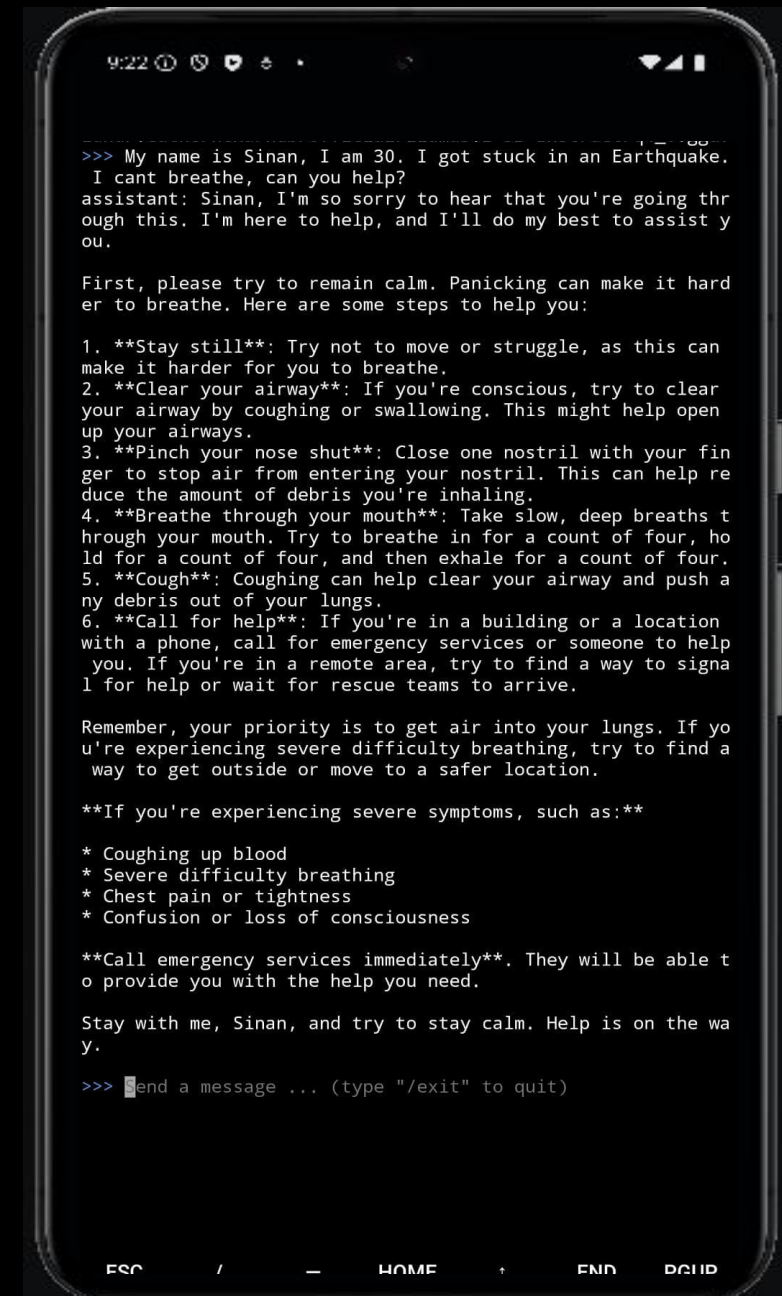
Informed decisions  
based on real-time  
data

Dynamic  
path-optimization



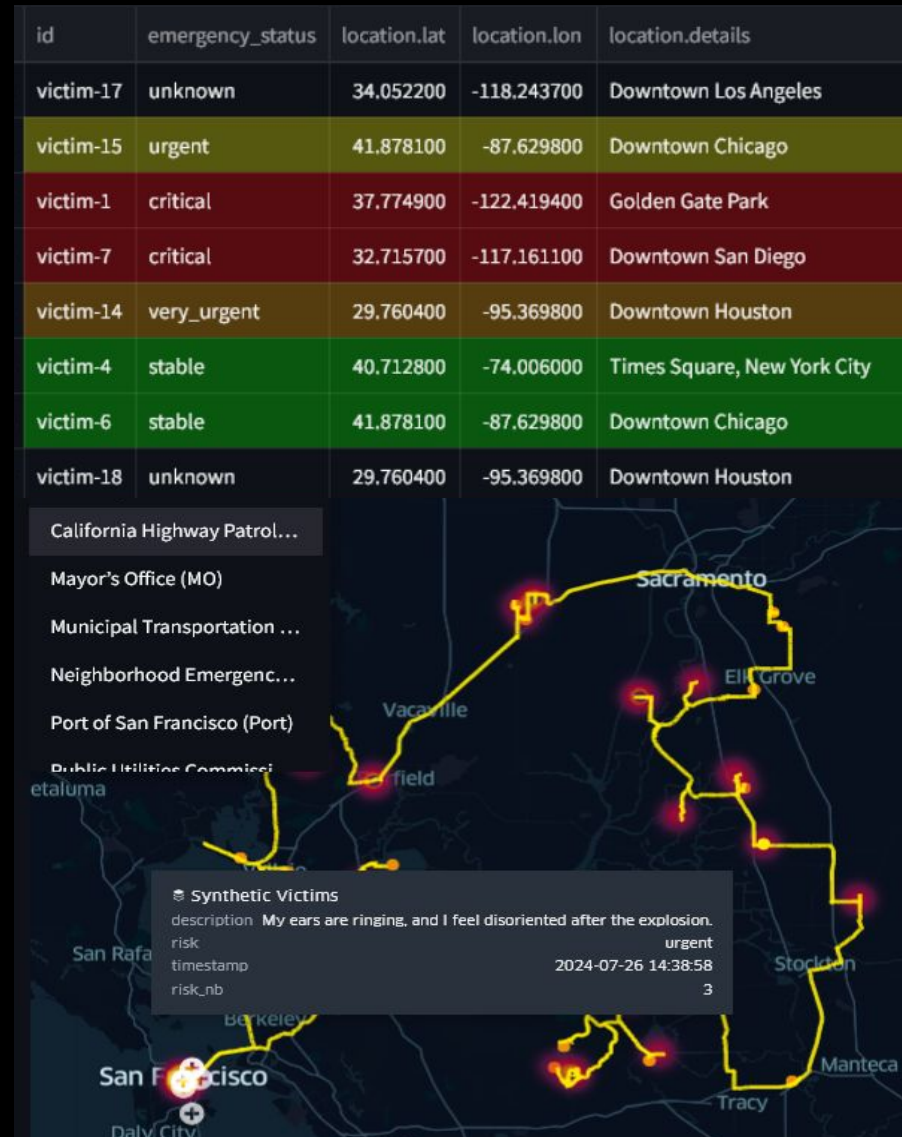
# Features - Client

- Psychological & emotional support
- Basic survival assistance
- Estimation of vital emergency status
- Standardized data collection



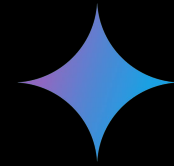
# Features - Server

- Offline Persistent DB
- Real-time updates
- Emergency Filters
- Optimized Routes



# Tech-Stack

- AI Model : Openai O1-Preview Gemini-Flash-1.5
- Dataset : Fire-Base Realtime
- Front-End : Streamlit
- Hosting : HuggingFace Spaces
- Mapping : Kepler.gl
- Route Optimization : OSRM





# Future Work

- On-device LLMs with function-calling
- Add fleet capacity for Path Optimization
- Neighbourhood density layer
- Ad-Hoc Networks  
–device-to-device communication



Thank you, and Stay Safe!

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