



AN AI-POWERED CRISIS RESPONSE PLATFORM



BY TEAM SYNTAX ERROR



Problem Statement

Meet Shukhpal Singh

A 56-year-old man, along with his family, was among the worst affected by the 2018's Kerala Flood

- They were **trapped** in their **home** for more than **72 hours** with **no help** in sight.
- Although their **smartphones were still working**, all **helpline** numbers remained **unreachable** due to the **overwhelming volume** of incoming requests.

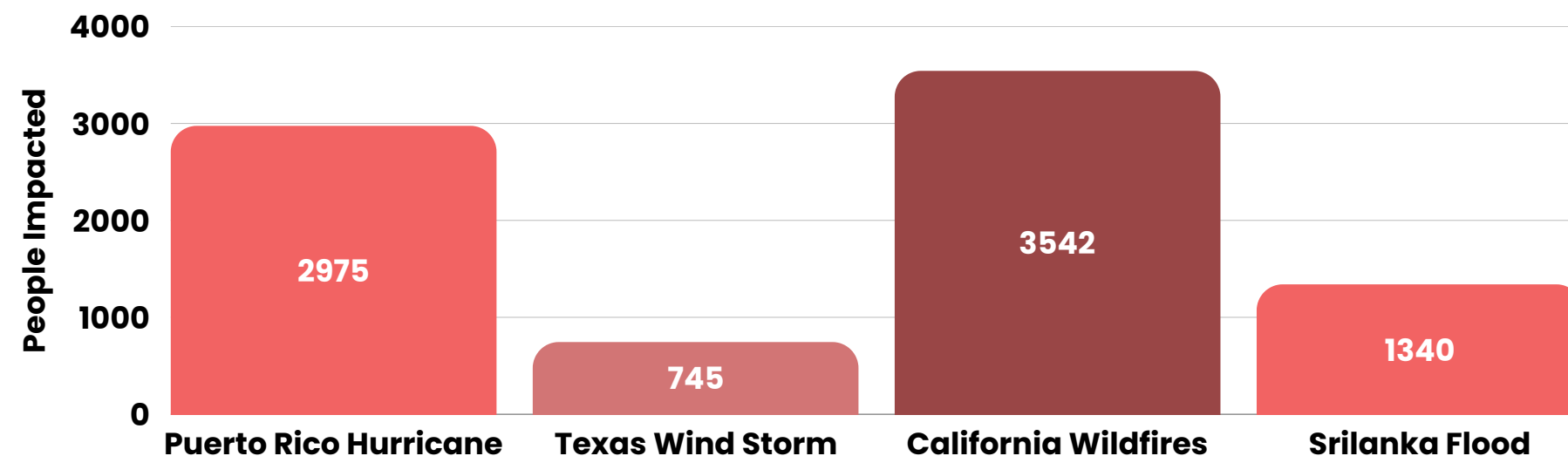


It's not just him

483 deaths were reported in **Kerala flood** due to
Emergency Response System **Failure**

And likewise,

At different Countries



All due to
Emergency Response Failure

What's **wrong** with the **Traditional** Crisis Response System?

Every 37 Seconds

Someone dies due to emergency response failure during disasters (Source: WHO 2023)

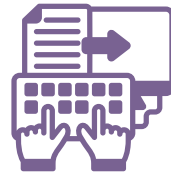
72% Fatalities

occur during the 1st 48 hours of disaster

3.4M Lives Lost

to preventable disaster outcomes since 2000
(Source: World Bank Disaster Mortality)

Most governments and humanitarian systems **still rely** on:



Manual Data Entry



Call Center



Spreadsheets



Static Forms

which...

- consumes **time** with **overwhelming volume** of requests
- Leaves the Data **Unstructured** without **Prioritization**
- Causes **Misallocation** of Life-saving **Resources**

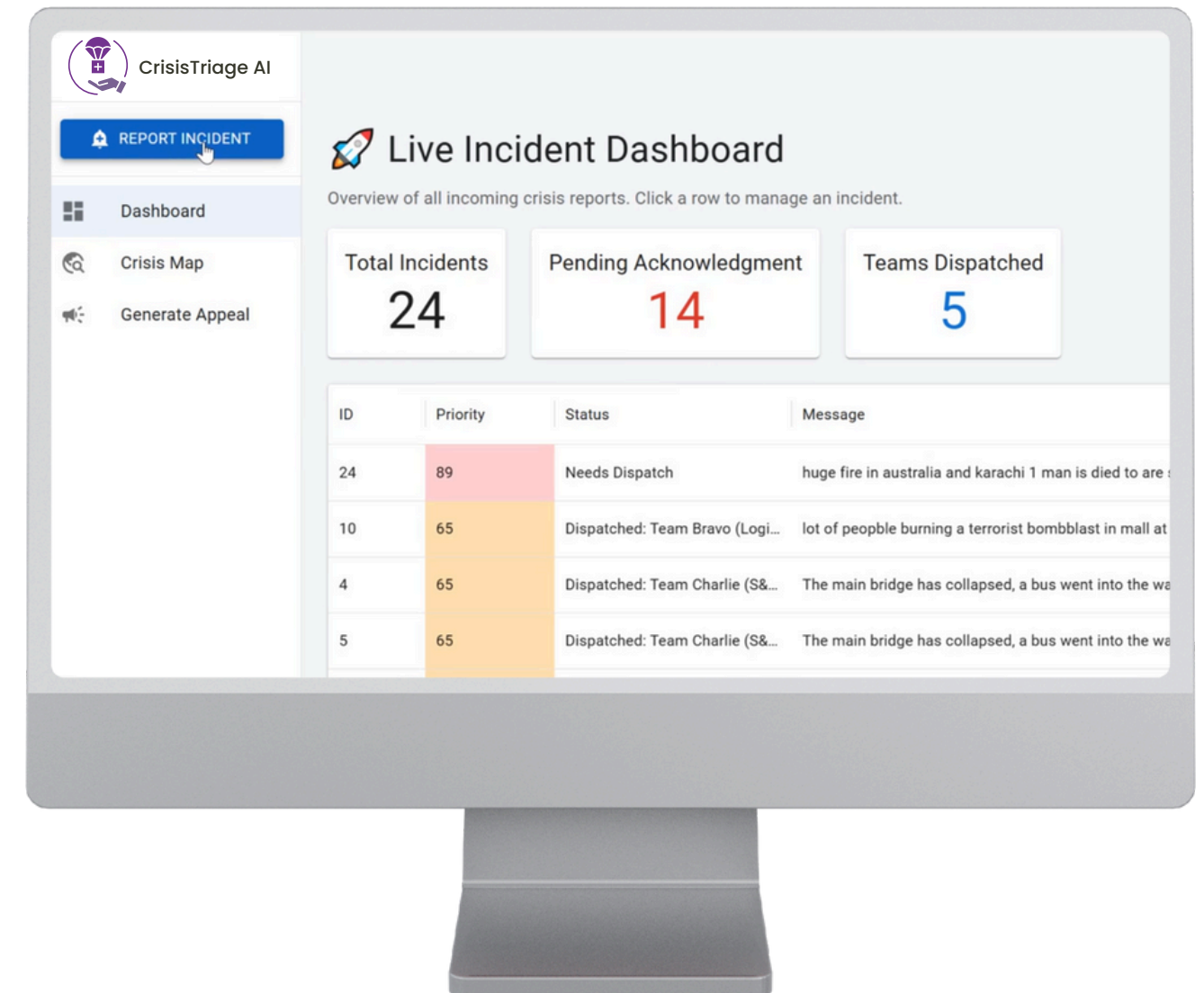
Introducing...



CrisisTriage AI

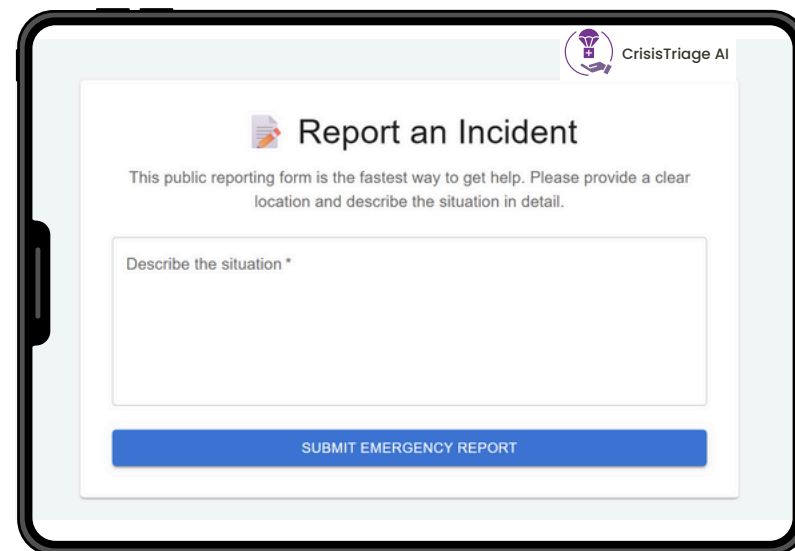
An AI-powered Crisis Response Platform that processes priority based emergency requests in real-time

to ensure **optimized** rescue operations saving people's **lives** and **resources** during disasters

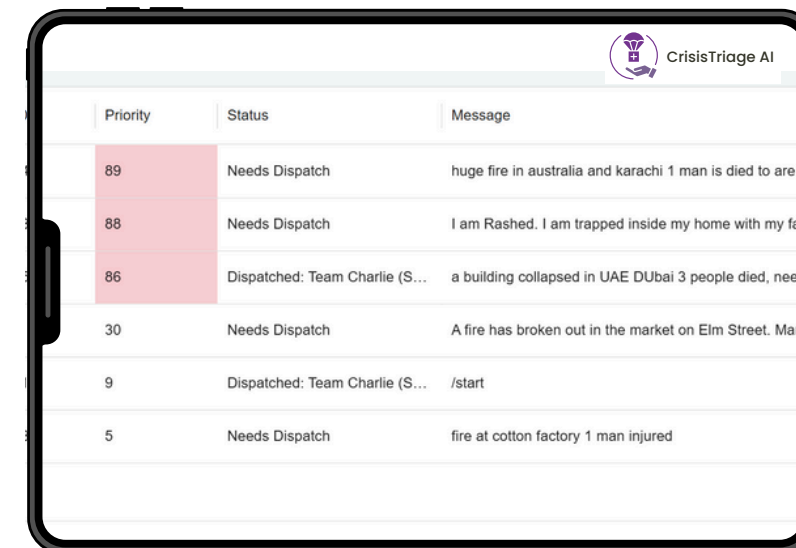


Features

CrisisTriage AI is an LLM-powered crisis triage platform that:



1 Parses emergency **reports** from **Telegram, public** forms, and **SMS**.



Priority	Status	Message
89	Needs Dispatch	huge fire in australia and karachi 1 man is died to are s
88	Needs Dispatch	I am Rashed. I am trapped inside my home with my fa
86	Dispatched: Team Charlie (S...	a building collapsed in UAE DUBAI 3 people died, need
30	Needs Dispatch	A fire has broken out in the market on Elm Street. Man
9	Dispatched: Team Charlie (S...	/start
5	Needs Dispatch	fire at cotton factory 1 man injured

3 Assigns a dynamic **Rescue Priority Score** to each case.




2 Automatically extracts **location, urgency, vulnerable populations**, and needed **resources**.



4 Visualizes data in real-time via an interactive **dashboard** and **crisis map**.

USER DEMONSTRATION

TECH STACK

 Category	Technology
Frontend	React, Vite, Material-UI (MUI), Axios, React-Leaflet
Backend	Python 3.11, FastAPI, SQLAlchemy
Database	Supabase (PostgreSQL)
AI / LLMs	Groq (Llama 3), Novita.ai
Notifications	Slack Webhooks
Messaging Channel	Telegram Bot API
DevOps / Tunneling	Localtunnel

How Trae AI IDE Helped CrisisTriage AI's Development?

Challenge in CrisisTriage AI	Trae AI IDE Feature	How It Helped
Backend API scaffolding (FastAPI endpoints, data models)	Builder Mode + LLM suggestions	Rapidly generated Python REST endpoints, data validation, and DB schema
Complex triage logic & scoring	Code generation + contextual understanding	Trae suggested well-structured scoring algorithms and helped refactor LLM integration loops
Frontend design + interactivity	Multimodal image-to-code	Uploaded mockups of dashboard layouts and let Trae produce React components with Material-UI
Debugging integration workflows	Real-time error fixes & terminal-aware chat assistance	Trae suggested fixes during Slack/Telegram API integration and resolved deployment errors
Collaboration across team	GitHub integration + intelligent commit messages	Streamlined code reviews ; auto-generated commit messages improved Git hygiene
Iterative customization	Plugin-friendly interface & settings portability	Allowed team to install UI plugins and share settings, ensuring consistent dev environments

How Novita AI Enabled CrisisTriage AI?

Project Need	Novita Feature	Impact on Development & Product
Rapid LLM integration	OpenAI-compatible endpoints	Plugged in Rescue Triage engine in <1 hour
High-throughput triage	130+ tokens/sec inference	Real-time scoring even under heavy load
Cost-effective scaling	Low \$/token and pay-as-you-go model	MVP validations under budget constraints
Model flexibility	Multi-model access (Llama, Mistral)	Tuned multiple models for accuracy vs cost
Infra setup simplified	Serverless GPU with autoscaling	No GPU infra overhead ; dev focus on features
Multi-modal content needs	Image/video/audio tools	Allowed integration of alert visuals & voice bots

Revenue Streams

SaaS Subscription

Tiered pricing based on volume and features.

Prospective Clients



Triage Processing Fees

Custom integrations, training, and onboarding

Prospective Clients



Impact-Driven Grants

to Support deployment in **vulnerable** regions

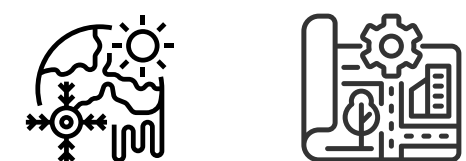
Prospective Clients



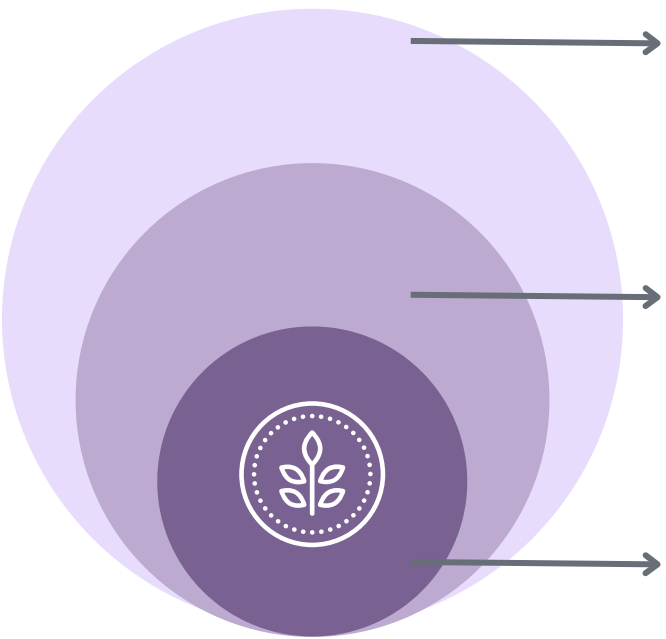
Data & Analytics Licensing

Revenue from selling anonymized **crisis trends** and **heatmaps**

Prospective Clients



Market Opportunity



TAM
\$152+ Billion
 Global emergency management market by 2032

SAM
\$18+ Billion
 Focused on AI, SaaS, and situational awareness solutions

SOM
\$120+ Million
 Disaster-prone regions



Target Consumers

Government Agencies

- Require nationwide **dispatch & crisis mapping**;
- Large budgets
- Procurement cycles

International NGOs & UN Bodies

- Field-proven, secure SaaS
- **Custom** integrations
- Donor-backed funding

Local NGOs & Community Groups

- **Low-cost** plans
- Grant-subsidized deployments

Enterprise Corporates

- **Workplace** safety,
- Risk management
- Real-time alerts for workplace

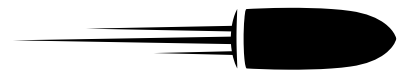
Competitor Analysis

Feature / Capability	CrisisTriage AI 	Legacy CAD 	Crisis Forms 	GIS Tools 
Natural Language Understanding (NLP)				
AI-Based Triage & Rescue Scoring				
Real-Time Crisis Map				
Multi-Channel Input (Form + Telegram)				
Automated Dispatch Workflow				
Public-Facing + Internal SaaS Views				

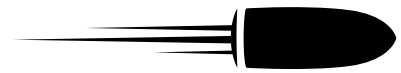
While others collect data, CrisisTriage AI turns chaos into clear, ranked, and actionable intelligence — instantly.

Future Prospects

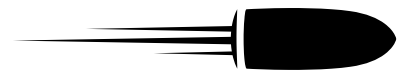
Scalability



Ready for global rollout with **cloud-native** infra



Modular design allows **regional language** packs and **NGO-specific tuning**



Can plug into national **911 systems**, **UN data pipelines**, or **humanitarian CRMs**

Social Impact

Reduce

response time by up to **70%**

Save

thousands of **lives** per year

Empower

grassroots response teams in **low-income** regions



CrisisTriage AI

THANK YOU!