CRISIS

ARTIFICIAL INTELLIGENCE

PROPOSAL

PROBLEM STATEMENT

In times of crisis, it is of utmost importance to possess a dependable and effective framework that can furnish precise and prompt data to aid individuals and establishments in dealing with the predicament. Nevertheless, the existing systems for managing crises frequently possess restricted capacities and can pose difficulties when employed. Additionally, they may lack the essential attributes to offer customized aid to individuals with diverse requirements and responsibilities. Consequently, a novel system is imperative, one that can dispense astute and automated resolutions for handling crisis scenarios and assuring the well-being of individuals and communities.

PROPOSED SOLUTION

Creating a new dedicated system to cover crisis management issues EU.

CrisisAI is a hybrid AI project that can provide intelligent and automated solutions for managing crisis situations and ensuring the safety of individuals and communities. It is based on state-of-the-art hybrid AI techniques and is designed to be user-friendly, adaptable, and trustworthy. It can perform various functions, such as situational awareness, information filtering, decision-making, knowledge empowerment, collaboration, and coordination. It can also help the users with different needs and tasks, such as crisis general advices, focus on individual needs, management based on geographic location, communication with organizations, virtual doctor, migrants' management, and kidnapping management. CrisisAI interacts with the users in natural language and integrates with other crisis management systems and tools also consists of more than 10 different modules for various tasks. It is a multilingual, reliable, responsive, collaborative, and extensible system. CrisisAI can improve the response time and accuracy of information provided during a crisis, making it easier for people to get help when they require it most. CrisisAI is a system that can help people and organizations to better cope with the crisis, minimize human losses and damages.

This system will enable EU to have a reliable system that can be applied in various crisis situations across the region, enhancing their preparedness and collaboration for future crises with intelligent solutions and this reduce costs, losses and increases performance.

IMPACT AND DISSEMINATION

CrisisAI aims to improve the response time and accuracy of information provided during a crisis, making it easier for people to get help when they require it most. The system can help people and organizations better cope with the crisis, minimize human losses and damages, and recover from the crisis. Due diligence is a vital process that ensures the quality and performance of CrisisAI. It helps to verify the system's capabilities and compliance, as well as to mitigate any potential risks and vulnerabilities. By conducting thorough due diligence for CrisisAI, the system can provide valuable support to users in crisis situations by using state-of-the-art open-source AI techniques and reliable data.

EXPECTED OUTCOMES

The expected outcomes of this proposal are:

- A comprehensive crisis management system that can be used for EU's crises.
- A novel research hybrid AI project that can provide intelligent and automated solutions for managing crisis situations and ensuring the safety of individuals and communities.
- A user-friendly, adaptable, and trustworthy system that can perform various functions, such as situational awareness, information filtering, decision-making, knowledge empowerment, collaboration, and coordination.
- A system that can help the organizations and users with different needs and tasks, such as crisis general advices, focus on individual needs, management based on geographic location, communication with organizations, virtual doctor, migrants' management, and kidnapping management.
- A system that interacts with the users in natural language with a user-friendly interface to simplify the process of working with the system.
- A multilingual, reliable, responsive, collaborative, and extensible system.
- A system that can improve the response time and accuracy of information provided during a crisis, making it easier for people to get help when they require it most.
- A system that can help people and organizations to better cope with the crisis, minimize human losses and damages, and recover from the crisis.
- A due diligence that covers the technical, legal, ethical, social, and environmental aspects of CrisisAI.

PROJECT OUTLINE

The CrisisAI project will consist of the following phases:

- **Research**:

  In this phase, research on state-of-the-art hybrid AI techniques will be conducted and the CrisisAI system will be developed using open-source tools.

- **Data preparation**:

  In this phase, data will be gathered from various data sources and the dedicated dataset for crisis management system will be prepared.

- **Implementation and Deployment**:

  In this phase, the CrisisAI system will be implemented and deployed in real-world crisis situations and its performance will be evaluated.

- **Due diligence**:

  In this phase, due diligence for CrisisAI will be conducted by assessing its technical quality, legal compliance, ethical principles, social impact, and environmental sustainability.

TIMELINE AND SCHEDULE

The CrisisAI project will be completed in 12 months, with the following timeline and schedule:

✓ **Research:** 2 Months

- The severity and extent of the crisis in the country.

- The most important needs of people and organizations for which solutions can be considered systematically.

- A variety of suitable platforms for implementing the crisis management system.

- Types of artificial intelligence that can be used on the platform.

- Providing coordination and preparations for the implementation of the crisis management system.

✓ **Data preparation:** 3 Months

- Checking the type of data required.

- Collect data from various sources.

- Data classification.

- Data validation.

- Data processing.

- Database development and dataset preparation.

TIMELINE AND SCHEDULE

The CrisisAI project will be completed in 12 months, with the following timeline and schedule:

✓ **Implementation:**

Standard Version: 6 Months

General Advice, Individual Need, Virtual Doctor, Communication with Organizations, Migrants Management, Kidnapping Management, Emergency Evacuation, Training Section, News, Announcements, Consultation, Awareness, Feedbacks, Ideas.

Extended Version: 6 Months

Collaboration, Analyzer, Tools, Multilingualism, Geo –Location Management, Task Management, Planning, Investigation, Public Health Management, Sentimental Analysis, etc.

✓ **Due diligence:** 3 months

TERMS AND CONDITIONS

The following terms and conditions can apply to the CrisisAI project:

- The project will be completed within 2 six months from the start date.

- The project costs are depend on governmental and international support.

- The project team will provide regular updates on the project's based on feedbacks.

- This project can be handed over to the relevant EU organization and technical follow-up and its development will be available to them.

CONCLUSION

CrisisAI is an innovative initiative that strives to develop an intelligent framework for proficiently managing unforeseen events within the EU. This groundbreaking project incorporates a combination of cutting-edge artificial intelligence and natural language processing techniques. The primary objective of CrisisAI is to provide a diverse range of automated solutions tailored to address various crisis scenarios and tasks. These solutions encompass crucial aspects such as information analysis, decision support, knowledge sharing, teamwork facilitation, and coordination enhancement.

By leveraging CrisisAI, the speed and efficiency of information transmission during times of crisis will be significantly enhanced. This will play a pivotal role in ensuring prompt assistance for individuals in dire circumstances. Additionally, CrisisAI will greatly assist individuals and organizations in effectively managing crises, thereby minimizing human and material losses, as well as expediting the recovery process.

The ambitious CrisisAI project is slated to be completed within a span of 12 months and subsequently presented to the relevant EU organizations. In order to ensure its comprehensive viability, the project will undertake meticulous due diligence encompassing technical, legal, ethical, social, and environmental considerations. With its groundbreaking smart solutions, CrisisAI represents a pioneering hybrid AI research initiative that can considerably bolster the preparedness and collaborative efforts in mitigating future crises.

AUTHOR

ALI KAZEMI

eng.ali.Kazemi@outlook.com

+98-930131-7007 (Whatsapp)