1

Choose your best "How Might We" Ques

Share the top 5 brainstorm questions that you created and let the group determine where to begin by selectin one question to move forward with based on what seen to be the most promising for idea generation in the area you are trying to impact.

10 minutes

QUESTION

How might we... [insert problem statement here]?

QUESTION

How might we... [insert problem statement here]?

QUESTION

How might we... [insert problem statement here]?

QUESTION

How might we... [insert problem statement here]?

QUESTION

How might we... [insert problem statement here]?

2

Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

10 minutes

Person 1

- AI methods offer new opportunities related to applications in, for instance, observational data preprocessing as well as forecast model output post processing.
- Integrating frontier technologies including artificial intelligence into existing emergency systems can harness the potential of existing data streams and improve hazard mitigation and disaster management.
- artificial management for disaster responce has proven effective in many natural disaster around the world
- scientific advances in robotics research are moving the technology from predictable spaces like production lines into disaster zones.
- after earthquakes accidents avalanches or explosions robots can take the place of their human teammates cutting risk to human life and helping boost the changes of rescuing victims.
- artificial intelligence makes it possbile for machine to learn from experience,adjust to new inputs perform human like task
- Most AI examples that you hear about today - from chess-playing computers to self -driving cars-rely heavily on deep learning and natural language processing
- AI allows organizations to make better decisions,improving core business processes by increasing both the speed and accuracy of strategic decision making processes
- Artificial intelligence in particular machine learning is playing in increasing important role in disaster risk reduction -from forecasting of extreme events and the development of hazard maps to the detection of events in real time the the provision of situational awareness and decision support

Person 2

- IOT systems are expected to successfully del with disaster management through accurate predictions preparedness and early warning signs
- deployment of advanced IOT solutions will help us broaden our reach in remote areas and will assess the damage and further repair it -within no time
- India has witnessed tangible results with the help of IOT ,states like odisha face deadly floods and cyclones ,washing away villages and destroying the state infrastructure on yearly basis
- IOT devices and sensors can collect near real time data on things like water levels ,volcanic activity,and barometric readings
- sensors can detect wildfires tornadoes,cloudbursts, volcanic activites earthquake etc and send early warning
- AI systems can be trained with the help of seismic data to analyze the magnitude and predict the location of earthquakes and aftershocks,thus saving million of lives
- Machine learning can greatly help in emergency and disaster management efforts
- The scientists are using machine learning to examine satellite images of Earth's surface in order to detect any changes that could indicate the onset of natural disaster
- All around to the world we use sensors to monitor for natural disasters

Person 3

- Artificial inteligence models have shown remarkable success and superiority to handle huge and nonlinear data owing to their higher accuracy and efficiency
- *It is making them perfect tools for disaster monitoring and management*
- The new methods include the use of artificial intelligence which given its ability to anticipate future events
- It could make a huge difference and help limit the human andmaterial costs of such disasters
- The specific aim of overcoming this problem,a group of researches at stanford university has developed a new machine learning algorithm named earthquake transformer
- Various machine learning algorithms can be employed in such cases to make fast and reliable decisions
- The various ML algorithms that can be used for disaster and pandemic manageent
- seismic sensors(seisometers)and vibration sensors(seismoscopes) are used to monitor for earthquakes
- Disaster education aims to provide knowledge among individuals and group to take actions to reduce their vulnerability to diasters

Person 4

- Many deep learning techniques have been applied by various researchers to detect and classify natural disaster to over come losses in equal system
- To monitor earthquakes, scientist use seismographs to detect ground shaking and can use a Gutenberg Ricther daigram to predict the magnitude and frequency of future earthquakes
- Global navigation satellite system data with AI,scientists have been able to predict tsunami amplitudes without characterizing the triggering earthquakes
- Remote sensing can be used to assist risk reduction initiatives through identifications of hazard zones ssociated with flood plains coastal inundation and erosion, and active faults
- The advantage of emote sensing include the ability to collect information over large spacetial areas
- Remote sensing GIS technology provides the exact position of the spacial data of historical sites
- Best artificial intelligence software comparison table of AI software, google cloud machine
- At present, there are still gaps in the literature regarding real time natural disaster recognition
- the computer model is updated every 12 hours with the latest satellite data and observations,thereby allowing scientists to issue forecasts and warnings

Person 5

- The ultimate goal of the disaster management leader is to minimize the evets impact,something that involves preparedness,response,recovery and mitigation
- Disaster managemebnt is about organizing and direecting resources to cope with a disaster and coordinating the rules and responsibility of responders
- The disaster mangement tool is a softwae system supporting decision makers,surveillance and intervention teams during disaster response
- Remote sensing has a wide range of applications to risk assessment,tracking,response and mitigation of natural disaster
- Artificial intelligence in particular machine learning is playing an increasingly important role in disaster risk reduction
- The natural disater category being divided into six disaster groups:biological,geo phsicall,meteorological,hydrological,climatologcal andextra terrestrial
- The method for natural disaster intensity analysis and classifiaction based on multi-spectral image using a multi-layered deep convolutional neural network
- The main disaster producing agents are reviewed systematically in terms of geo physicall processess and effects,monitoring mitigation and warning
- Disaster mangement efforts aim to reduce are avoid the potential loses from hazards,asure prompt and appropriate assistance to the victims of a disaster

3

Brainstorm as a grou

Have everyone move their id template and have the team group them by thematic topi that arise. Encourage "Yes, a the way.

15 minutes