NATURAL DISASTER INTENSITY AND ANALYSIS USING ARTIFICIAL INTELLIGENCE

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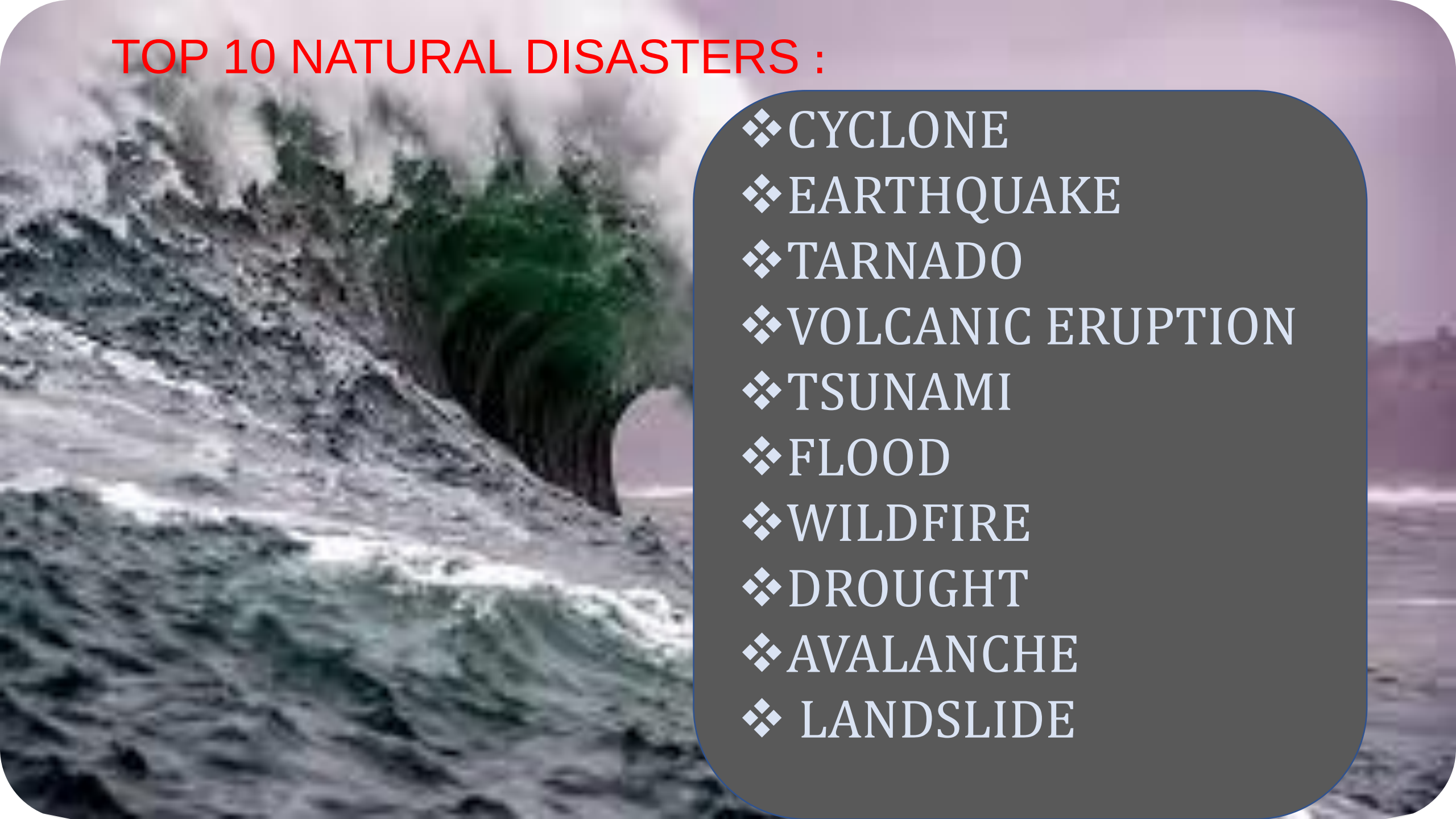
ABSTRACT

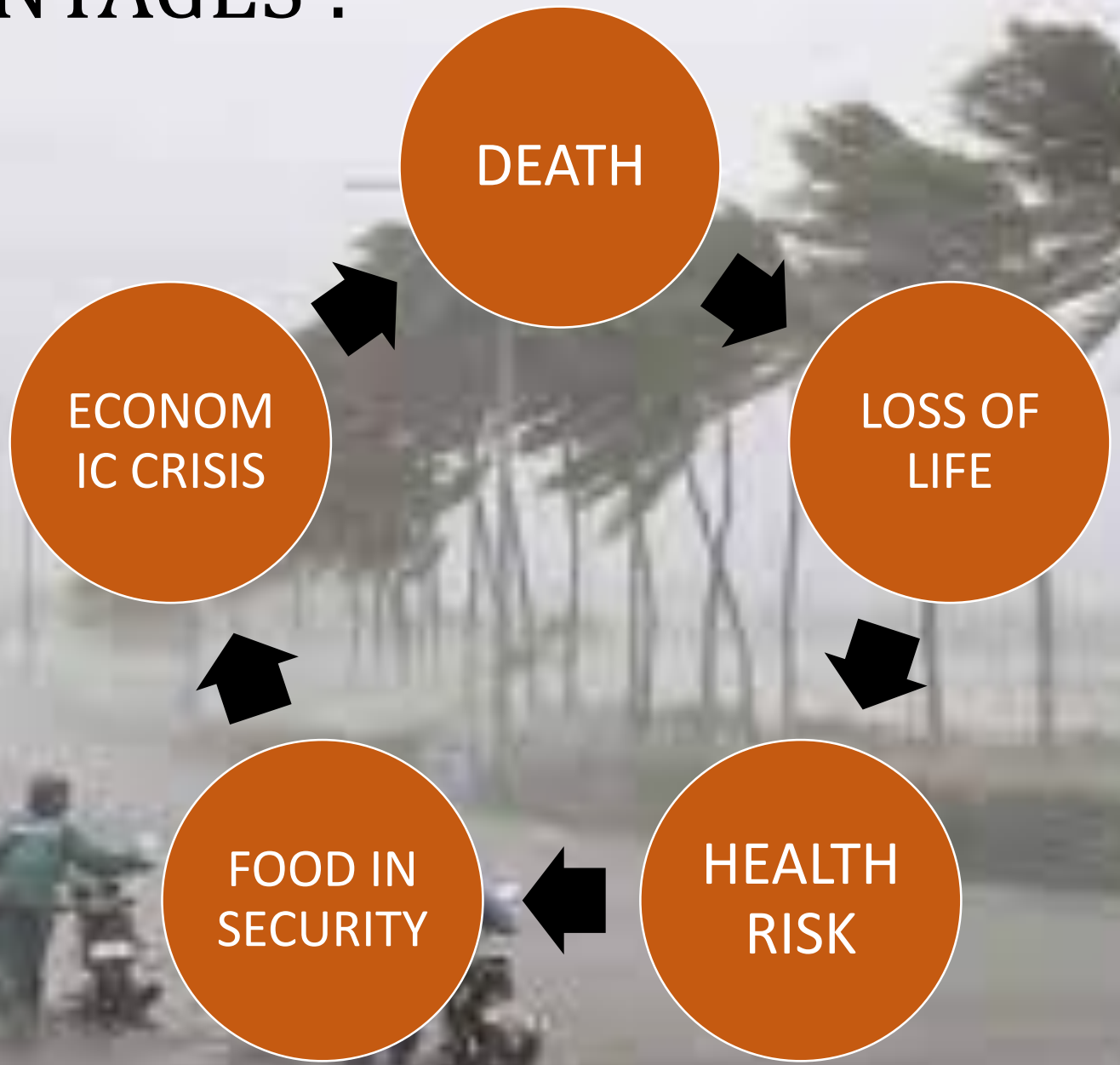
Natural Disaster not only disturb the human ecological system but also destroy the properties and critical infrastructures of human societies and even lead to permanent change in the ecosystem . Disaster can be caused by naturally occurring events such as earthquakes,cyclones,floods and wildfires.Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems but detection still faces issues due to the complex and imbalanced structures of images.



TOP 10 NATURAL DISASTERS :

- CYCLONE
- EARTHQUAKE
- TARNADO
- VOLCANIC ERUPTION
- TSUNAMI
- FLOOD
- WILDFIRE
- DROUGHT
- AVALANCHE
- LANDSLIDE

DISADVANTAGES :



ABOUT TOPIC

- Natural Disaster are inevitable and the occurence of disaster drastically affects the economy,ecosystem and human life.
- As the technologies are continuously improving aviation systems have begun adopting smart technologies to develop unmanned aerial vechicles (UAVs) equipped with camers,which can reach distant area to identify after effects of natural disasters on human life,infrastructure and transmission lines by capturing images and videos.
- Data acquired from these UAVs help to identify the facial expressions of victims ,the intensity of their situation and their needs in a post scenario.

CONCLUSION

- ✓ To address these probplems , we proposed a ,multiplayered deep convolutional neural network for detection and intensity classification of natural disasters.
- ✓ The proposed method works to detect of natural disaster occurrence and to remove imbalanced class issues.