PROJECT OBJECTIVES

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| **TEAM ID** | **PNT2022TMID33575** |
| **PROJECT TITLE** | **NATURAL DISASTER INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELlIGENCE** |

* Improve the understanding of disaster risk, hazards, and vulnerabilities
* Strengthen disaster risk governance at all levels from local to center
* Invest in disaster risk reduction for resilience through structural, nonstructural and findevelopment
* Ancient measures, as well as comprehensive capacity
* Enhance disaster preparedness for effective response
* Prevent disasters and achieve substantial reduction of disaster risk and losses in lives, livelihoods, health, and assets (economic, physical,social,cultural and environmental)

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* Floods are a calamitous and remarkable disaster. Floods impact greatly on human lives, economically and financially affecting nations.
* With the help of a neural network, it is possible to predict floods and save the masses from the disaster.
* By implementing a convolutional neural network and Modified Particle Swarm Optimization (MPSO), Padmawar et al.
* Developed a deep learning approach to foresee the flood circumstances and identify the individuals beforehand.
* In convolutional neural networks, a model to detect wildfire smoke named wildfire smoke dilated dense net was proposed by Li et al.
* Consisting of a candidate smoke region segmentation strategy using an advanced network architecture.
* An evaluation of building clusters affected by earthquakes by

exploring the deep learning method, which uses long short-term memory.