## EARTHQUAKE IMPACT ASSESSMENT USING GEOSPATIAL AND SEISMIC PARAMETERS

## Jalla Srinidhi<sup>1</sup>, Saniya Almas<sup>2</sup>, Bandari Sanjana<sup>3</sup>

UG Scholar Department of AI&DS, Methodist College of Engineering and Technology, Hyderabad, India

## Dr Diana Moses<sup>4</sup>

Professor, Department of CSE, Methodist College of Engineering and Technology, Hyderabad, India

## <u>ABSTRACT</u>

This dataset documents significant global earthquake events, capturing key seismic attributes and geospatial data. The records span multiple high-magnitude earthquakes from mid-2023, detailing parameters such as magnitude, date and time, intensity (CDI/MMI), alert levels, tsunami warnings, and geographic coordinates. Each event is identified by its epicenter location, along with data on depth, seismic significance, and source network. The dataset includes both automated and reviewed information, providing insights into the seismic activity in regions such as Vanuatu, El Salvador, Argentina, and Alaska. This compilation supports earthquake risk assessment, geophysical studies, and emergency preparedness analysis by offering structured, timely data on impactful seismic events.