Earthquake Prediction Model

Name : S.PRIYANKA
B.E(CSE) 3 Rd year
Mail id : priyankasuresh06072003@gmail.com

Problem Statement

- To create a model for the task of Earthquake Prediction Model using machine learning and the python programming language Predicting earthquake is one of the great unsolved problems in the earth 🌎🌍 science
- So we can use machine learning and other data -driven methods to predict earthquakes

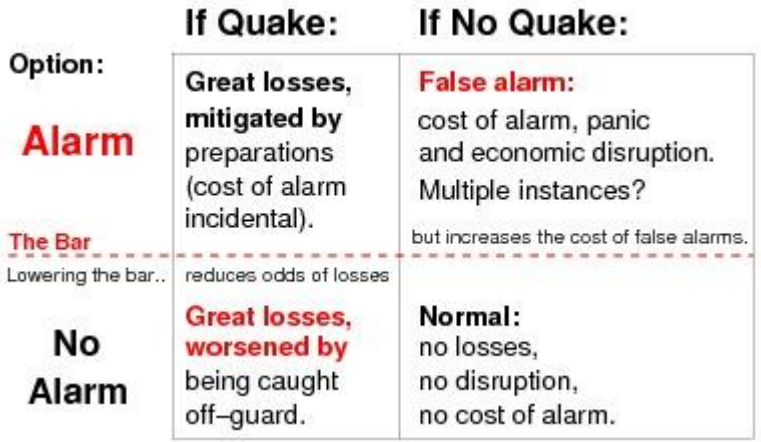
Project sketch

The objective of the project will be to develop machine learning methods

- ML-based methods have a higher chance of Predicting earthquake accurately because of their high accuracy
- The main aim to predict the magnitude and probability of earthquake occuring in a particular region using the historic data with various machine learning models to find which model is more accurate

Techniques for 🌎 Earthquake Prediction

- Animal behavior
- Dilatancy -diffusion
- Changes in VP/Vs
- Radon emissions
- Electromagnetic anomalies
- Nowcasting
- Elastic rebound
- Characteristics earthquakes



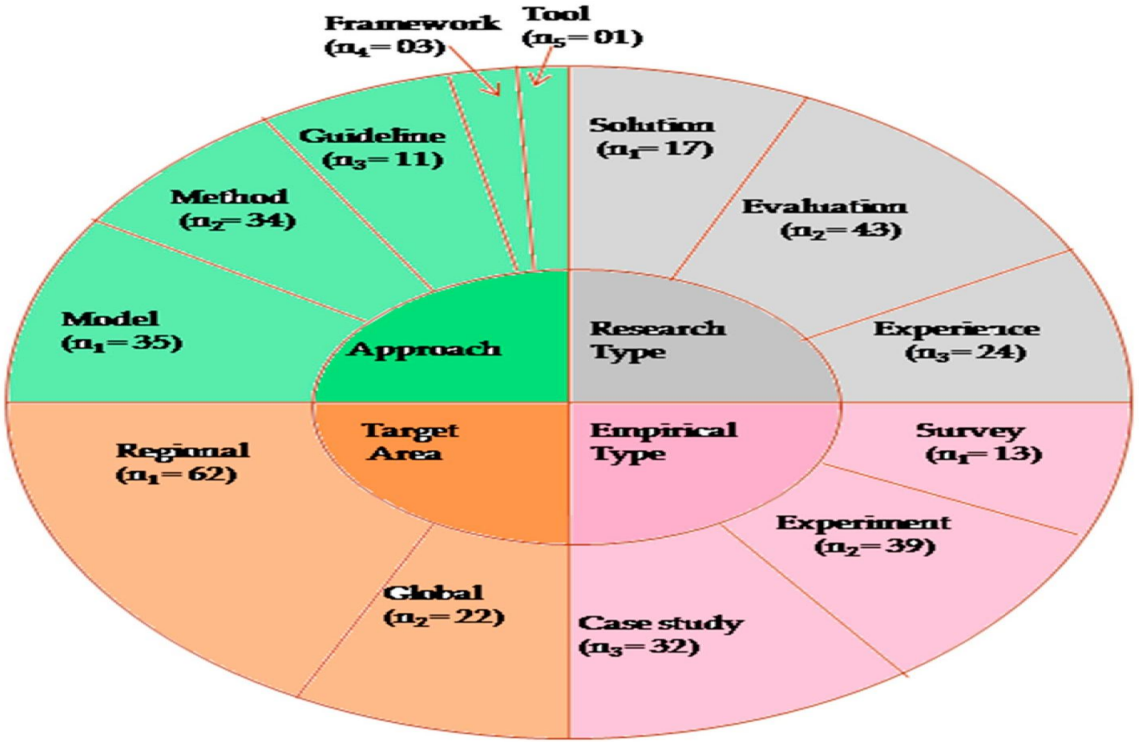
Design for Model

- Machine learning can predict lab quakes using fault Zone acoustic emissions(AE) .
- Deep learning (DL) methods allow labquakes prediction and autoregressive (AR) forecasting .
- The autoregressive methods are novel and allow forecasting at future horizons shear stress .
- A seismometer is the internal part of the seismograph ,which may be a pendulum or a mass mounted on a spring
- Seismograph are instruments used to record the motion of the ground during an Earthquake

Problem Definition

- Earthquake Prediction is a branch of the science of seismology concerned with the specification of the time , location, and Magnitude of future earthquakes within states limits,and particularly “The determination of parameters for the next strong earthquake to occur in a region “
- Earthquake Prediction is sometimes distinguished from earthquake forecasting which can be defined as the probabilistic assessment of general earthquake hazard , including the frequency and Magnitude of damaging earthquakes in a given area over years or decades
-

Earthquake Prediction piechart



Earthquake Prediction Using AI or Deep learning

Conclusion::

- We conclude that from our project are the strength and weekness of the model .we will showcase the models performance using piechart ,graph and so on… to highlight their predictive capabilities
- Thank you