**SIGNIFICANT OF EARTHQUAKE HAPPENS USING**

**DATASCIENCE TECHNIQUE**

**ABSTRACT**

An earthquake is the shaking of the surface of the Earth resulting from a sudden release of energy in the Earth's lithosphere that creates seismic waves. At the Earth's surface, earthquakes manifest themselves by shaking and displacing or disrupting the ground. So predicting the factors of an earthquake is a challenging job as an earthquake does not show specific patterns resulting in inaccurate predictions. Techniques based on machine learning are well known for their capability to find hidden patterns in data. The machine learning model is built based on the past data related to earthquakes where the model can learn the pattern from the data and takes the consideration of the factors. The factors which are taken into consideration are the pre-processed data that is the dependency of the factors are checked in accordance with earthquake. Comparison of machine learning algorithms are done for better prediction and performance metrics are also calculated an evaluated**.**