

# An earthquake prediction tool.

My form of technology is implementing a prediction model to try to predict the magnitude of a potential earthquake. Combined with this magnitude, a probability will be calculated of an earthquake with this magnitude. This probability will be calculated with the Gutenberg & Richter Law. The end goal is giving the users insights on the probability of an earthquake happening in their local area.

The magnitude and probability will be shown in an application tool, that would be downloadable in the app store and that would be reachable on every government website on every country on the earth. In order to let anyone use this application, the goal is to let the application work without any internet connection.

Not only the magnitude and probability will be shown on this application. The end-users will also get tips on how to keep themselves safe from an

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earthquake. These tips correlate to the probability and magnitude given. A high probability and magnitude will result in more urgent tips. The users will also get insights in earthquakes that happened in the past with a map visualization and a dataset visualization containing the past earthquakes in that region.

This technology will not prevent earthquakes from happening. Its main goal is to try to keep people safe during and after an earthquake. It also helps the users in implementing preventative measures beforehand in order to keep themselves save during an earthquake.

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Context of use: Other

Level of education: Bachelor

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## Impact on society

What impact is expected from your technology?

*This category has not been filled yet.*

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## Hateful and criminal actors

What can bad actors do with your technology?

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## Privacy

Are you considering the privacy & personal data of the users of your technology?

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## Human values

How does the technology affect your human values?

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## Stakeholders

Have you considered all stakeholders?

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## Data

Is data in your technology properly used?

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## Inclusivity

Is your technology fair for everyone?

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## Transparency

Are you transparent about how your technology works?

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## Sustainability

Is your technology environmentally sustainable?

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## Future

Did you consider future impact?

*This category has not been filled yet.*