**A close-up of a logo

Description automatically generated with medium confidence**

**ShockWave**

**Team Members**

|  |  |  |
| --- | --- | --- |
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**Background**

* We are going to access earthquake data from USGS
* Look for more detailed resources
* Possible create a timeline
* Look at other resources
* Japan, Indonesia, USA

**Motivation**

Is there an increase in earthquakes since 1970?

Is there an increase in the magnitude of earthquakes since 1970?

**Questions to answer**

* Plot the earthquake locations
* Plot magnitudes of the earthquakes
* Show the magnitudes compared to location
* Show collation of earthquakes around the ring of fire

**Tools/Modules to use**

* Python
* Pandas
* Matplotlib
* NumPy
* SciPy
* etc.

**Data sets to use**

* USGS
* <stan hunt down additional sources> (json, api)
* Hunt additional sources to map data with - Anderson

**Visualizations**

* Number of > mag 3 earthquakes vs time - Ali
* Brake up plots by decade
* Scatter plots / linear regression - Anderson
* 70’s, 80’s,90’s,00’s,10’s
* 10 largest earthquakes for each decade – Stan
* Show where the max earthquakes are - Stan
* Map to show where the earthquakes are – remove
* Heat map heat sig is > higher mag then darker the color - remove

**Tasks Breakdown**

* Stan: Collect/Clean the data.
* Anderson: Dashboard and project progress.
* Ali: Visualization and plotting.
* Ali & Anderson: Presentation and summary.
* Maintain github John
* Project plan / organize - Henry

**Tasks and timeline**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Date** | **Task** | **Notes** |
| **1** | **8/22** | Project Work |  |
| **2** | **8/23** | Project Work |  |
| **3** | **8/24** | Project proposal | **Done –** |
| **4** | **8/25** | Code development |  |
| **5** | **8/26** | Code development |  |
| **6** | **8/27** | Code development |  |
| **7** | **8/28** | Create Visualizations |  |
| **8** | **8/29** | Code development |  |
| **9** | **8/30** | Code development |  |
| **10** | **8/31** | Code development |  |
| **11** | **9/1** | Code development |  |
| **12** | **9/2** | Create Visualizations |  |
| **13** | **9/3** | Create Visualizations |  |
| **14** | **9/4** | Presentation prep |  |
| **15** | **9/5** | Mock Presentation |  |
| **16** | **9/6** | Finalize the project |  |
| **17** | **9/7** | PROJECT PRESENTATION |  |
|  |  |  |  |

**Presentation**

Divide your presentation steps to tasks and assign it to members.

Suggested by:  
Khaled Karman