

# ARC6818 FINAL ASSIGNMENT

## GLOBAL EARTHQUAKE DATA ANALYSIS

- DATA SET USED FROM THE NATIONAL EARTHQUAKE INFORMATION CENTER (NEIC).

### WHAT WILL BE CONSIDERED:

- LOCATIONS OF EARTHQUAKES - PATTERN? - FOLLOW FAULT LINES/PLATE BOUNDARIES?
- FREQUENCY OF EARTHQUAKES OVER TIME
- SIZE/MAGNITUDE OF EARTHQUAKES - CORRELATION? AND POSSIBLE CAUSES
- LOCATIONS OF EARTHQUAKES SORTED BY COUNTRY - USED TO ANALYSE/PREDICT DAMAGE IN REGIONS - SIZE OF EARTHQUAKE BY COUNTRY (WORD BASED VISUAL)
- USE DATA TO PREDICT FUTURE EARTHQUAKE LOCATIONS/SIZES IN REGIONS

### VISUALISATION TECHNIQUES:

- GRAPHICAL REPRESENTATION (MATPLOT.LIB, PYPLOT, BASEMAP)
- TABULAR REPRESENTATION (SEABORN)
- INTERACTIVE VS STATIC (PYPLOT & PY.IPLOT)
- WORD BASED REPRESENTATION (SCIKIT-LEARN & NLTK)

BY JAKE HOLLEBONE

Figure Showing The Locations Of Earthquakes Around The World

