

Earthquake Sample Model

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Sample Data Collection Details

The sample data is taken by randomly selecting the region of south east asia covering the countries **Malaysia**, **Indonesia** etc.. The sample data taken over a period of one year from **10 Feb 2017** to **10 Feb 2018**. The data model used here may or may not be used in final model as it all depends on the structure and

Data Overview

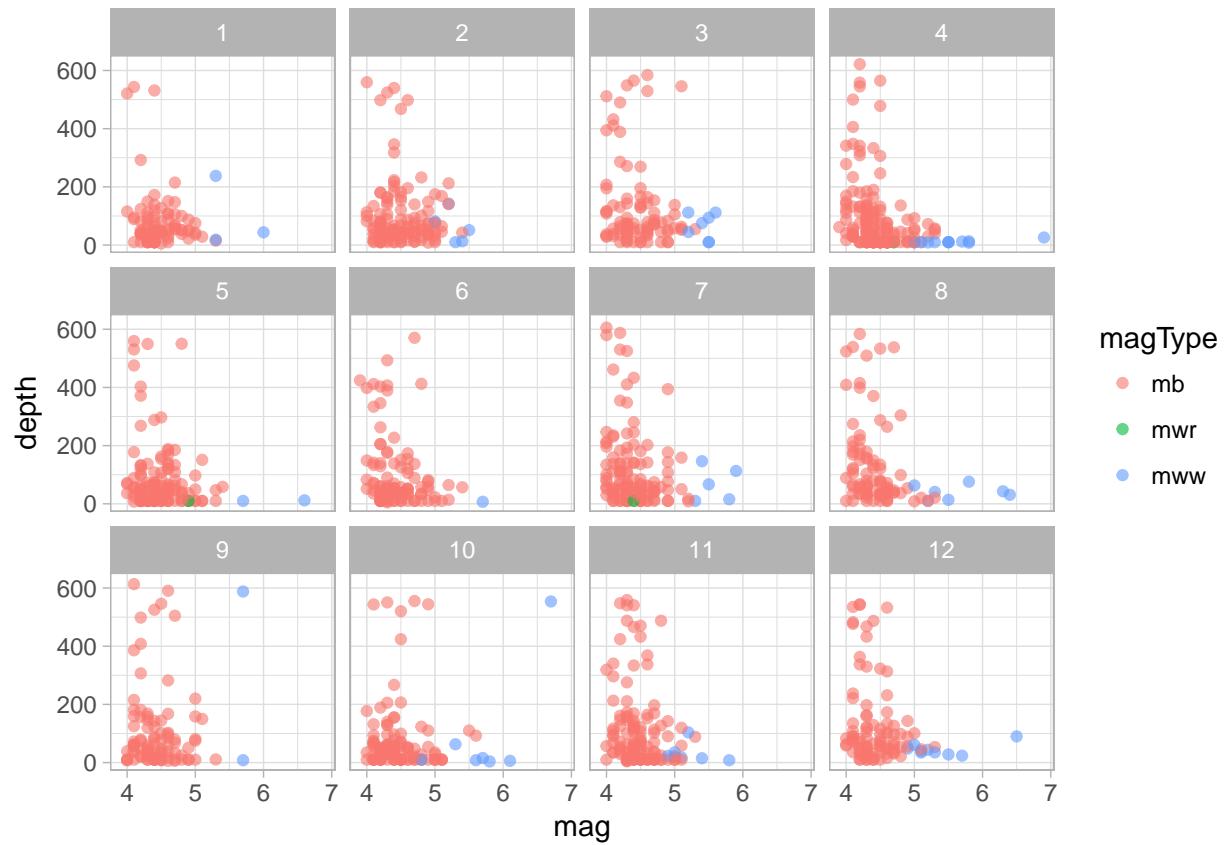
We will overview our data and remove unwanted or low variance features.

```
##      time          latitude        longitude       depth
##  Length:1369    Min.   :-11.7622   Min.   : 95.11   Min.   :  4.00
##  Class :character 1st Qu.: -7.0262   1st Qu.:112.94   1st Qu.: 24.61
##  Mode  :character Median :  0.2684   Median :123.96   Median : 53.86
##                      Mean   : -1.1173   Mean   :119.21   Mean   :102.07
##                      3rd Qu.:  3.5413   3rd Qu.:126.79   3rd Qu.:121.11
##                      Max.   :  9.2681   Max.   :128.32   Max.   :621.70
##
##      mag          magType         nst           gap
##  Min.   :3.900  Length:1369  Mode:logical  Min.   : 13
##  1st Qu.:4.200  Class :character NA's:1369   1st Qu.: 71
##  Median :4.400  Mode  :character                   Median : 95
##  Mean   :4.496                   Mean   :101
##  3rd Qu.:4.600                   3rd Qu.:128
##  Max.   :6.900                   Max.   :324
##
##      dmin          rms          net           id
##  Min.   : 0.008  Min.   :0.1300  Length:1369  Length:1369
##  1st Qu.: 1.310  1st Qu.:0.6700  Class :character  Class :character
##  Median : 2.063  Median :0.8300  Mode  :character  Mode  :character
##  Mean   : 2.327  Mean   :0.8528
##  3rd Qu.: 2.928  3rd Qu.:1.0300
##  Max.   :56.265  Max.   :1.6400
##
##      updated        place          type      horizontalError
##  Length:1369  Length:1369  Length:1369  Min.   : 2.400
##  Class :character  Class :character  Class :character  1st Qu.: 6.500
##  Mode  :character  Mode  :character  Mode  :character  Median : 7.900
##                      Mean   : 8.228
##                      3rd Qu.: 9.500
##                      Max.   :29.300
##
##      depthError     magError      magNst       status
##  Min.   : 0.600  Min.   :0.0340  Min.   : 1.00  Length:1369
##  1st Qu.: 3.600  1st Qu.:0.0850  1st Qu.:13.00  Class :character
##  Median : 7.000  Median :0.1160  Median :20.00  Mode  :character
##  Mean   : 6.678  Mean   :0.1214  Mean   :30.99
##  3rd Qu.: 8.900  3rd Qu.:0.1480  3rd Qu.:37.00
```

```

##   Max.    :33.700   Max.    :0.5320   Max.    :269.00
##             NA's     :1           NA's     :1
##   locationSource      magSource
##   Length:1369        Length:1369
##   Class :character   Class :character
##   Mode   :character   Mode   :character
##
## 
## 
## 
## [1] "character"

```



Correlation of numeric Data

We observe the correlation of numeric data.

```

numClean = eqClean[, c(-1, -6, -10, -11)]
chart.Correlation(numClean)

```

