

## Task 1.

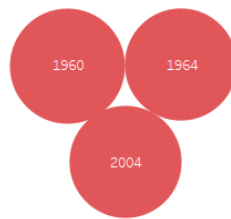
### a. Create Dashboard.

#### Dashboard 1 Maximum Magnitude

Dashboard gives information about 2 measures

- > from the Packed Bubble chart it show list of top 3 years where earthquake recorded with maximum magnitude
- > From the Box plot Median of the data is 8.00
- > 1960 is the year with Maximum magnitude
- > 2014 is the year with Minimum magnitude

Peak Quake Magnitudes by Year



Seismic Magnitudes: Yearly Distribution



Dashboard 2 Seismic Surveillance: Mapping and Analysis

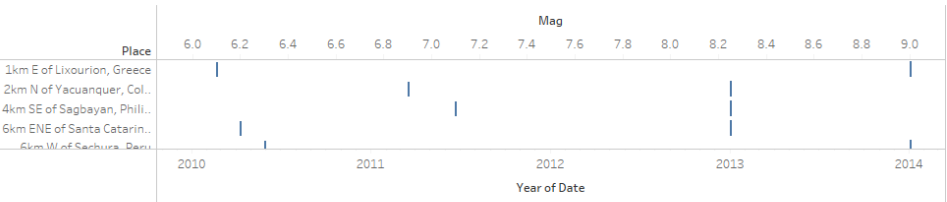
Dashboard 2 Seismic Surveillance: Mapping and Analysis

- >Seismic Hotspots: gives information about magnitude of earthquakes all over the world in the form of five Clusters
- >Cluster 5 has the maximum magnitude Clusters among all five.
- >Temporal Seismic Magnitude Tracker:
- >Gives information about the magnitude of the earthquake in particular year and the location

Seismic Hotspots: Clustering of Max Magnitudes



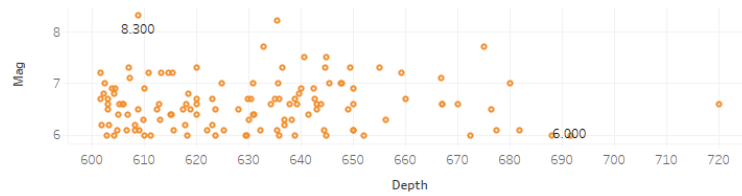
Temporal Seismic Magnitude Tracker



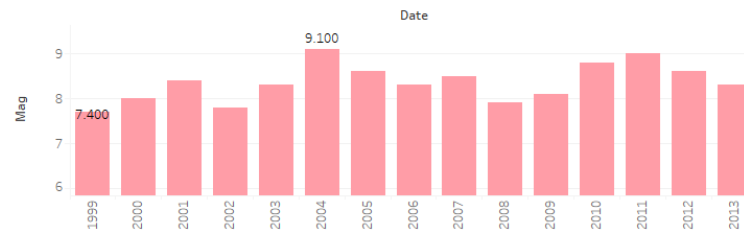
### Dashboard 3: Seismic Intensity and Depth Insights

Dashboard 3: Seismic Intensity and Depth Insights  
The Deep Impact: Magnitude Vs Depth:  
> Gives relation between magnitude of earthquake and depth of impact  
> Lowest magnitude is 6.00 with depth of impact is 691.  
Richter Rhythms:  
> Gives information about the magnitude of earthquakes in (1999-2013)  
> 1999 has the lowest recorded magnitude with 7.4

The Deep Impact: Magnitude vs. Depth



Richter Rhythms: Seismic Activity Over Time (1999-2014)

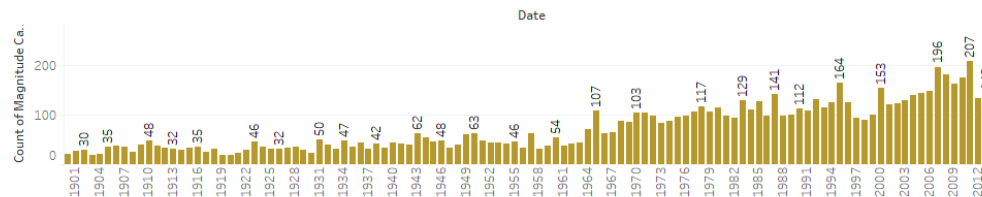


p Impact: Magnitude vs.... Richter Rhythms: Seismic Activi... Dashboard 3: Seismic Intensi... Seismic Scale: Magnitude Categ... Decade-wise Magnitude Distribu... Dashboard4: Seismic Chroni... Story 1

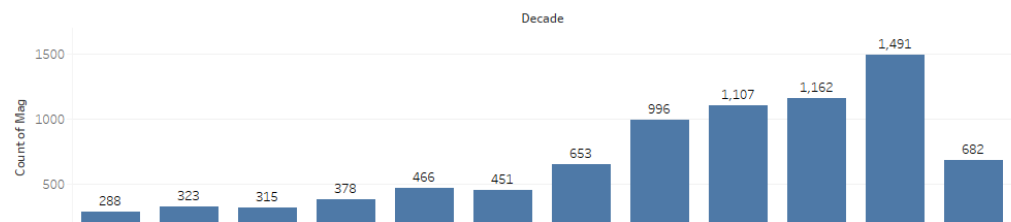
### Dashboard4: Seismic Chronicles: A Historical Overview of Earthquake Magnitudes

Dashboard4: Seismic Chronicles: A Historical Overview of Earthquake Magnitudes  
Seismic Scale: This histogram gives the count of the earthquakes occurred in a particular year.  
> year 2009 has the highest number of earthquakes with 207  
Decade wise magnitude Distribution:  
> This histogram gives information of total number of earthquakes in each decade  
> Decade 2000s have highest earthquakes with 1,490.  
> 2004 has the highest recorded magnitude with 9.100

Seismic Scale: Magnitude Category Count

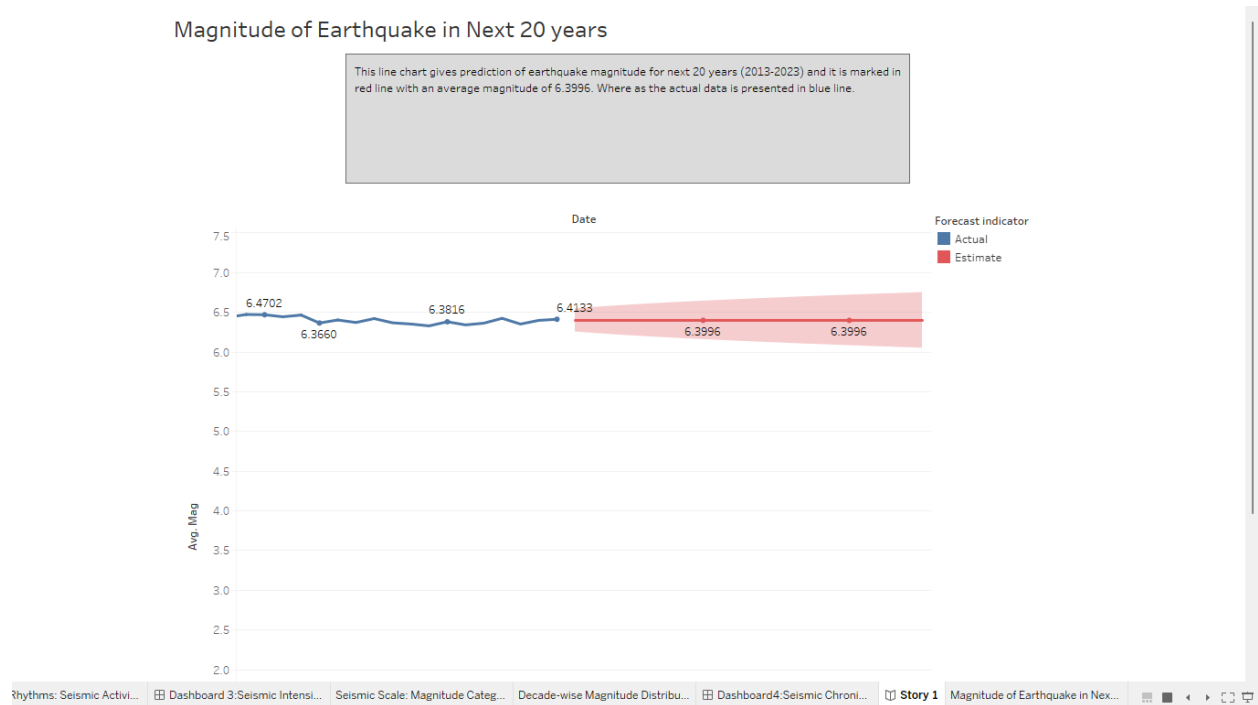


Decade-wise Magnitude Distribution

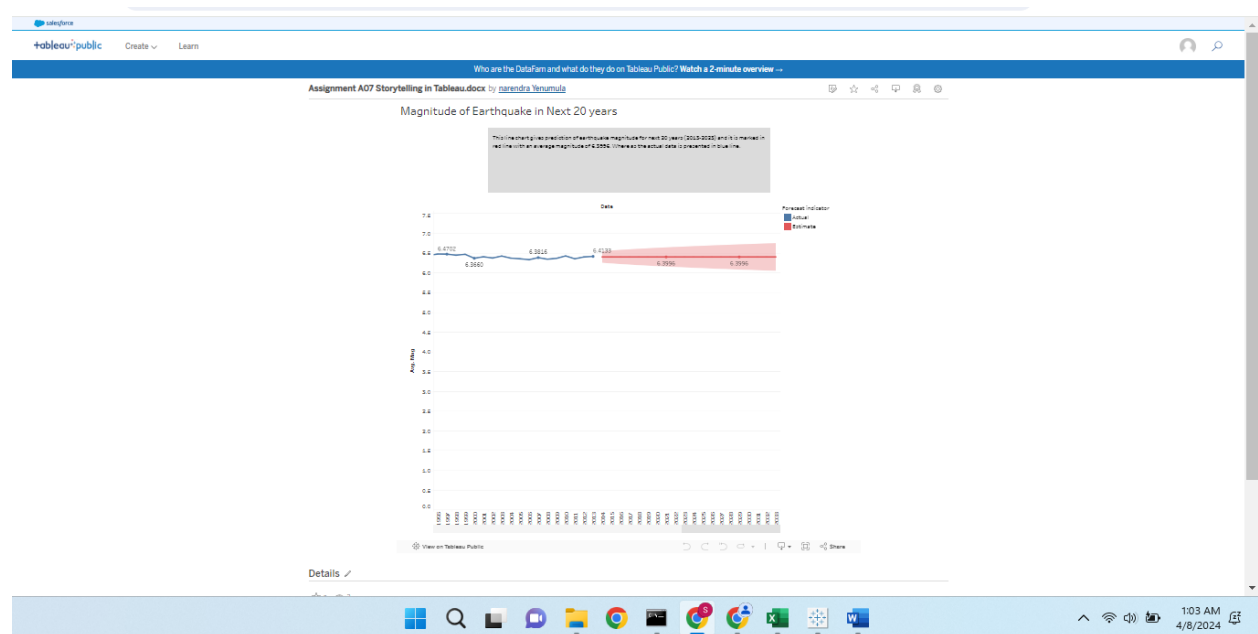


p Impact: Magnitude vs.... Richter Rhythms: Seismic Activi... Dashboard 3: Seismic Intensi... Seismic Scale: Magnitude Categ... Decade-wise Magnitude Distribu... Dashboard4: Seismic Chroni... Story 1

**Task 2.** Predict the magnitude intensity of earthquakes for the next 20 years. Present the actual and predicted values in one visualization.



**Task 3:** Publish your visualization on Public Tableau and submit the Tableau link and the screenshot document.



Predicted magnitude intensity for the next 20 years is 6.3996

[https://public.tableau.com/app/profile/narendra.yenumula/viz/AssignmentA07StorytellinginTableau\\_docx/Story1?publish=yes](https://public.tableau.com/app/profile/narendra.yenumula/viz/AssignmentA07StorytellinginTableau_docx/Story1?publish=yes)