Predicting Tsunami Events from Historical Data

the goal of this project is to understand the behaviour of the tsunami and it dependenciesusing historical data that starts from 200 BC till 2011 AD. This project proposes using a neural network to further predict the tsunami event.

Figure 1 shows the most affecting features, where the topmost three are the tsunami event region, runups and longitude.
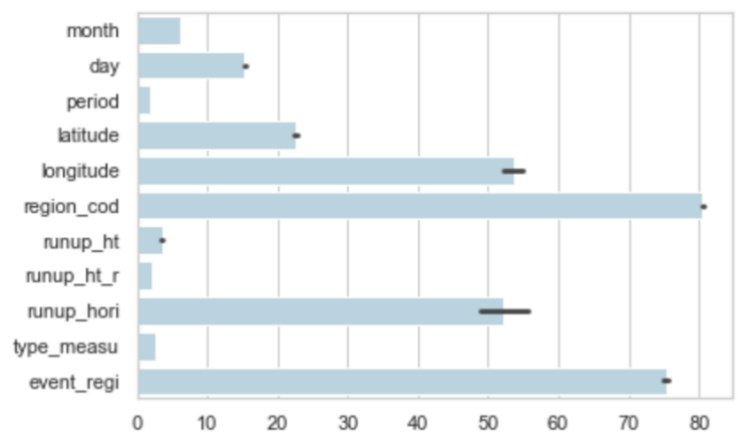

Figure 1 feature comparison

Visual 2 shows how march has the most tsunami events. Moreover, Visualizing the cause feature to understand what factors lead to tsunamis the most, as seen in figure 3 earthquake and volcanos are the most overlapping causes.
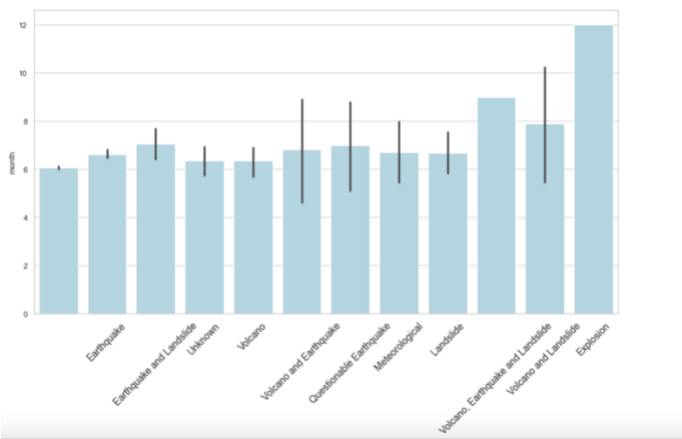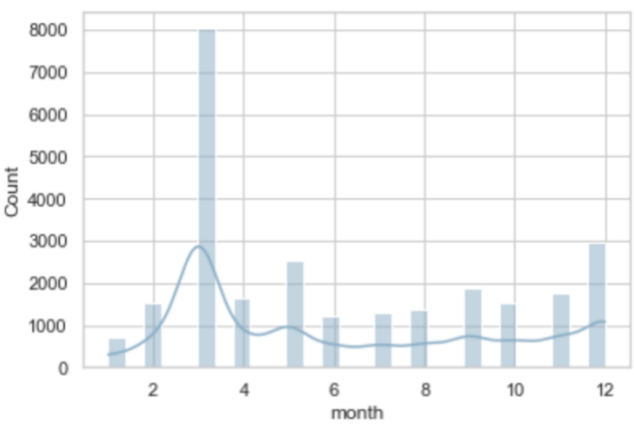

Figure 3 causes visual

Figure 2 tsunami intensity in relation to month

Finally, Visualizing the peak of the tsunami with the runup feature, where 0 is the lowest and 5 the maximum. As seen bellow in figure 4 the Pacific and Indian oceans had the higher peaks.
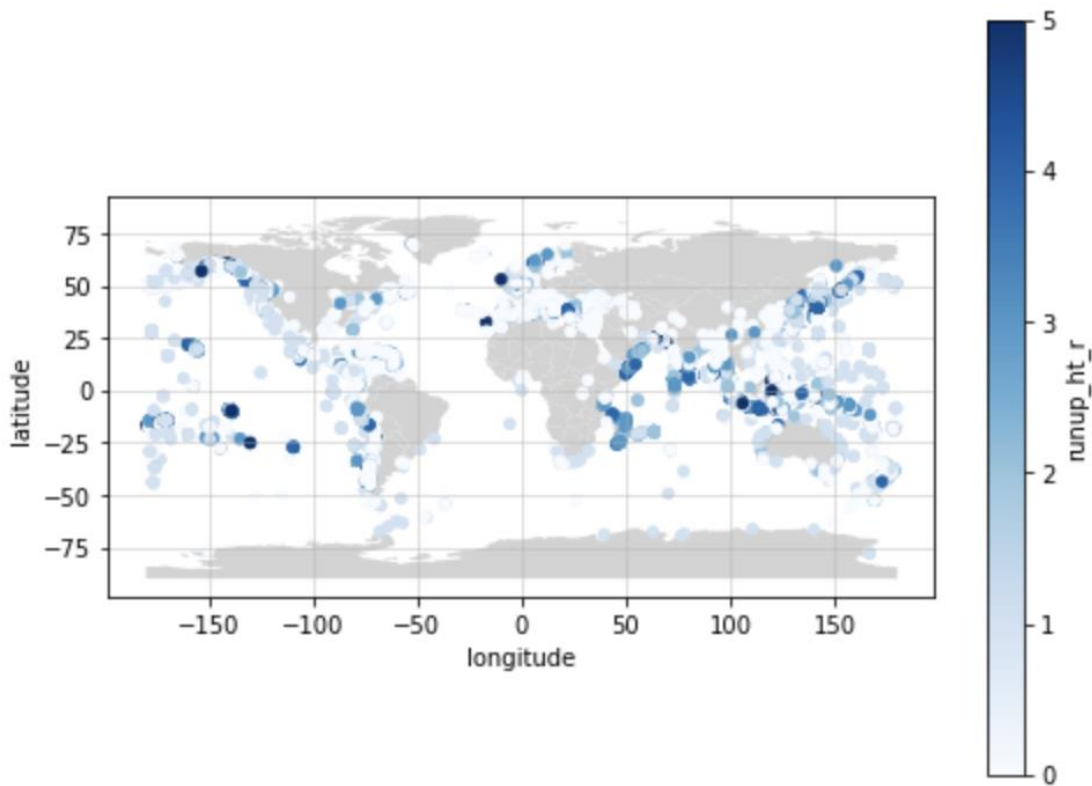

Figure 4 peak tsunami on map