

IC 272: Lab1: Data visualization and statistics from data

You are given a landslide dataset as a csv file. This dataset contains the readings from various sensors installed at 10 locations around the campus. These sensors give the details about the factors like temperature, humidity, pressure etc. Write a python program (with pandas) to read the given data and display following:

- Mean, median, mode, minimum, maximum and standard deviation for the attributes 'rain' and 'moisture'
- Obtain the scatter plot between for the attributes 'rain' and 'moisture' (You can use matplotlib library).
- Find the value of correlation coefficient between the attributes 'rain' and 'moisture'
- Plot the histogram for the attributes 'rain' and 'moisture' (You may use "hist" function from pandas)
- Plot the histogram of attribute 'rain' for each of the 10 stations (Use "groupby" function to group the sensors according to their "stationid")
- Obtain the boxplot for the attributes 'rain' and 'moisture' (Use "boxplot" function)
- Obtain the scatter plot between all the attributes taken pairwise in the given file.