### **Bangladesh University of Business & Technology**

# Dhaka, Commerce College Road Mirpur-2, Dhaka-1216



Course Code : CSE 4176

Course Title : Data Mining Lab

## **Assignment - 2**

Submitted To
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Dept of CSE, BUBT

CO2 Apply calculating mathematical statistics techniques (such as: mean - average value, median - middle value, median - middle value, median - middle value) in the following dataset -

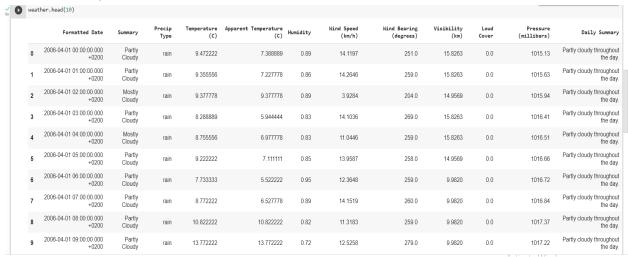
https://www.kaggle.com/datasets/muthuj7/weather-dataset

#### 1. Upload the dataset & Viewing the data



	Formatted Date	Summary	Precip Type	Temperature (C)	Apparent Temperature (C)	Humidity	Wind Speed (km/h)	Wind Bearing (degrees)	Visibility (km)	Loud Cover	Pressure (millibars)	Daily Summar
0	2006-04-01 00:00:00.000 +0200	Partly Cloudy	rain	9.472222	7.388889	0.89	14.1197	251.0	15.8263	0.0	1015.13	Partly cloudy throughout the day
1	2006-04-01 01:00:00.000 +0200	Partly Cloudy	rain	9.355556	7.227778	0.86	14.2646	259.0	15.8263	0.0	1015.63	Partly cloudy throughout the da
2	2006-04-01 02:00:00.000 +0200	Mostly Cloudy	rain	9.377778	9.377778	0.89	3.9284	204.0	14.9569	0.0	1015.94	Partly cloudy throughout the da
3	2006-04-01 03:00:00.000 +0200	Partly Cloudy	rain	8.288889	5.944444	0.83	14.1036	269.0	15.8263	0.0	1016.41	Partly cloudy throughout the da
4	2006-04-01 04:00:00.000 +0200	Mostly Cloudy	rain	8.75556	6.977778	0.83	11.0446	259.0	15.8263	0.0	1016.51	Partly cloudy throughout the da
55362	2012-02-03 18:00:00.000 +0100	Foggy	snow	-10.000000	-16.150000	0.84	12.8800	10.0	2.5760	0.0	1028.10	Foggy starting in the morni continuing unti
55363	2012-02-03 19:00:00.000 +0100	Foggy	snow	-10.033333	-15.861111	0.85	11.7530	18.0	2.3828	0.0	1028.09	Foggy starting in the mornin continuing until
55364	2012-02-03 20:00:00.000 +0100	Foggy	snow	-10.000000	-16.150000	0.84	12.8800	20.0	1.2880	0.0	1028.10	Foggy starting in the mornin continuing until
55365	2012-02-03 21:00:00.000 +0100	Foggy	snow	-10.000000	-15.666667	0.84	11.2700	20.0	1.2880	0.0	1028.20	Foggy starting in the mornin continuing until
55366	2012-02-03 22:00:00.000 +0100	Foggy	snow	-9.950000	-15.394444	0.85	10.6421	16.0	1.4329	0.0	1028.00	Na
55267 r	owe v 12 columns											

#### 2. View the top 10 rows of the dataset.



4. Showing the mean value of the Humidity Column,

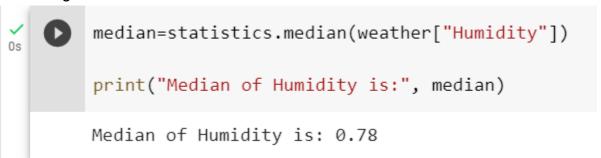
```
import statistics

mean=statistics.mean(weather["Humidity"])

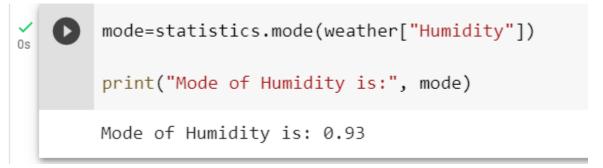
print("Mean of Humidity is:", mean)

Mean of Humidity is: 0.7312608593566565
```

#### 4. Showing the median value



#### 5. Showing the mode value



#### 6 . Showing the Standard deviation value

