Group Assignment I Report.

Group 12.

I.

Computed Arithmetic and Geometric Mean, Median, Mode, Standard Deviation for features:

A.Global\_active\_power

B.Global\_reactive\_power

C.Voltage

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| FEATURE | Arithmetic Mean | Geometric Mean | Median | Mode | Standart Deviation |
| Global\_active\_power |  |  |  |  |  |
| Global\_reactive\_power |  |  |  |  |  |
| Voltage |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FEATURE | Weekday - DAY | Weekday - NIGHT | Weekend - DAY | Weekend - NIGHT |
| Global\_active\_power | MIN  MAX | MIN  MAX | MIN  MAX | MIN  MAX |
| Global\_reactive\_power | MIN  MAX | MIN  MAX | MIN  MAX | MIN  MAX |

II.

Pearson Correlation for each disjoint pair.

Color - coded Correlation Matrix

III.

For GLOBAL\_INTENSITY:

Find a pattern.

DAY HOURS =

NIGHT HOURS =

Compute the AVG Global\_Intensity value for EACH DATA point

i.e

->Create a new Data Frame??

Perform Linear Regression based on LSM and polynomial regression for each of the resulting FOUR time windows.

Make two Diagrams - 4 Linear Regression Lines

4 Poly Regression Lines