

Machine Learning Homework (1)

Use variance concentration ratios to quantify data

1. Compare the variance concentration ratios for the five datasets and iris dataset¹
 - (a) Do StandardScaler normalization then compare their VCRs
 - (b) Do MinMax normalization then compare their VCRs
 - (c) Using raw data then compare their VCRs
 - (d) What are your conclusions? why?

¹

You can load iris data from sklearn: `from sklearn.datasets import load_iris`

What should you turn in?

- 1. A folder that contains
 - PPT to present your results (at least 10 pages)
 - your data
 - source files
 - corresponding related output.
- 2. Please name your folder last_name1_last-name2_DSC4310_hw_1.
- 3. Send the zipped file (.zip instead of ,rar) of your folder to Canvas by DUE