**In-Class Exercise – “Feature Importance”**

Due Day: 2022/05/02, Monday, 23:59

Objective: To understand how to find Feature Importance using feature weight SVM.

Explanations：

1. Use the course content to do practical exercises about feature importance

|  |
| --- |
| **% feature importance based Feature Weight of SVM**  **% Tested feature: feature weight**    **clc;**  **clear all;**    **% Load workspace of MATLAB to get the file containing positive and**  **% negative class, and the classification result of SVM model**  **% See page 4 of PPT Lab**  **load ()**  **% Performing feature weight (FW); See page 5 of PPT Lab**  **FW = ()**  % **Sort feature weight in descending order; See page 5 of PPT Lab**  **Features = ["Feature A", "Feature B"]**  **FW = [Features FW]**  **sortedFW =** **()** |

1. Use MATLAB to run the code and add screenshots to report in Word files.
2. Compress(.zip,.rar) the following file with the name of the group ( e.g. group\_1.zip)
   * 1. Code(\*.m)
     2. Report(\*.doc)
        + Result of feature importance.
        + Conclusion of result.
3. To update the contents of report can be directly re-upload file with the name of version (e.g. Group\_1\_v2.zip)

Note：

1. Each group, one report
2. Upload the file before 23:30 on e-Learning site (http://ncueeclass.ncu.edu.tw ) to complete.