ML Lab (CS360)

Assignment E2

Total Marks: 10 marks

1. Implement the logistic regression (own code) model using the below-mentioned dataset. Use the k-fold validation (k = 5) and report the average class-wise accuracy, average class-wise precision, and average class-wise recall. Also, report the overall accuracy for each of the 5-folds.

   Dataset: Wine dataset. It is available in *sklearn* library

Marks distribution:
   1. Implementation of logistic regression [2.5]
   2. Implementation of K-fold validation [2.5]
   3. Reporting of **well organize** results [2]
   4. Viva related to all the topics covered in the class till now. Two/Three questions will be asked and each will carry one mark [3]

Note:
   1. If the implementation is accurate but the student is unable to explain it, the total evaluation score will be zero.
   2. Students must implement the logistic regression for at least one fold to present the result. Otherwise, (without result) his or her score will be zero.
   3. Hyperparameter tuning and overfitting checking are optional.

Please do not copy anyone's code. Try to learn to code.

Thank you
Happy learning