For all the noobs starting out. This is a simple classification problem deemed to be one of the toughest problems in 1990's. But now things have changed; machines knowledge have increased far and wide and it can easily identify the wine category given its attributes. Prove this to the current world. Create a wine expert which deciphers the location of the origin of the wine based on its features.

Dataset description

This dataset as usual will be acknowledged at the end of the competition. The dataset is available in the drive by the name wine.data

The dataset comprises of 14 columns corresponding to each row with attributes as

1) Source Class (label to be predicted)

2) Alcohol

3) Malic acid

4) Ash

5) Alcalinity of ash

6) Magnesium

7) Total phenols

8) Flavanoids

9) Nonflavanoid phenols

10) Proanthocyanins

11) Color intensity

12) Hue

13) OD280/OD315 of diluted wines

14) Proline

The sources of wine is divided into 3 classes (labelled 1,2 and 3) given by the value in the first column. Each class has approx 40-60 instances.

Evaluation:

the question carries 15 points in total. The pool with highest f1 score gets 10 points and the pool with minimum multiclass log loss gets 5 points

**Submission for validation and testing**

This section describes the format to be submitted for the corresponding evaluation metrics:

1. For f1 score put the label corresponding to each datapoint in a single line. See sample21.txt
2. For minimum log loss each line of the output file should contain 3 ‘,’ separated terms giving probability for class 1,2 and 3 respectively. See sample22.txt