ML hw2

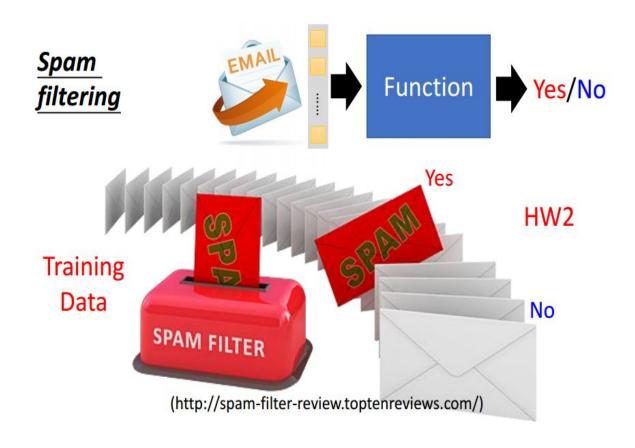
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Outline

- 1. Introduction
- 2. Data format
- 3. Kaggle
- 4. Policy
- 5. FAQ

Introdution

Spam classification



Data format

- Number of Attributes: 59 (data_id , feature , label)
- data_id: first attributes
- feature: 57 dimensions
- label: 0 or 1 (last attributes)
- data 分為 spam_train.csv, spam_test.csv

Data format

- 48 dimensions: word_counting
- 6 dimensions: char_counting
- 1 dimension : capital_sequence_length_average
- 1 dimension : capital_sequence_length_longest
- 1 dimension : capital_number

Kaggle

- 1. https://inclass.kaggle.com/c/spam-classification
- 2. 請至 kaggle 創帳號登入,需綁定 NTU 信箱。
- 3. 個人進行,不需組隊
- 4. 隊名: 學號 任意隊名(有修課的同學), 旁聽同學請避免學號開頭。
- 5. 每日上傳上限 5 次
- 6. test set 的 600 筆將被分為兩份, 300筆 public, 300筆 private
- 7. 最後的計分排名將以 private set 上為準。
- 8. kaggle deadline: 2016/10/28 9:00:00 am (GMT+8)
- 9. github code & report deadline: 2016/10/28 21:00:00 pm (GMT+8)

Kaggle Submission format

預測 test set 中的 600 筆, 上傳至 Kaggle。

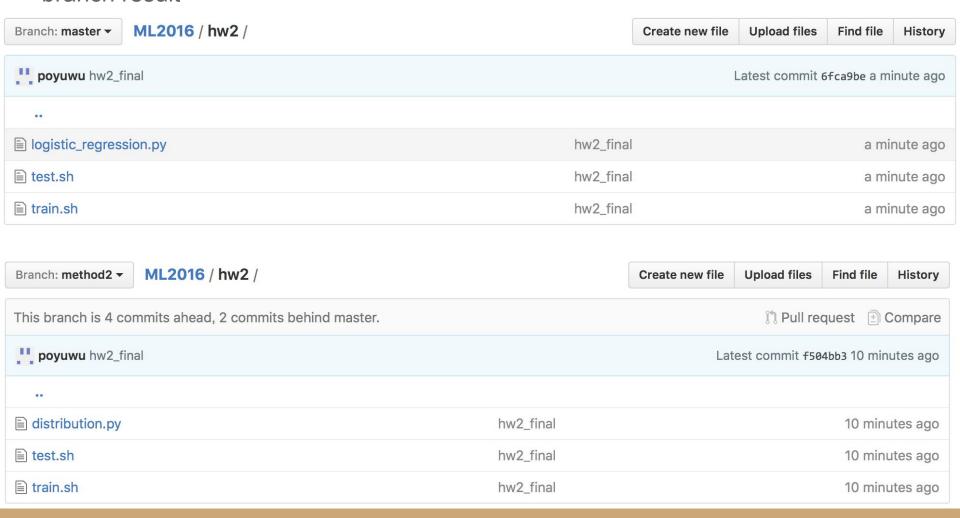
- 上傳格式為 csv
- 第一行必須是 id,label
- 第二行開始,每行分別為 id 及預測的 label,以逗點分隔。
- Using Accuracy to evaluate

Rules

- 1. 請實作 logistic regression, 並再實作另一種方法
- 2. logistic regression 方法請放 master, 另一種則放branch branch name: method2
- 3. 不能使用現成 package
- 4. 不能使用額外的資料。
- 5. train.sh 需 10分鐘內跑完, test.sh 需10秒內跑完
- 6. Only Python & C/C++ is available.
- 7. * Please do not upload dataset.*

Rules

branch result



Policy

ML2016/hw2/

請至少包含 Report.pdf (only on master), train.sh, test.sh。

Usage:

./train.sh \$1 \$2 輸出: your model \$1: training data, \$2: output model

./test.sh \$1 \$2 \$3 輸出:prediction.csv \$1: model name, \$2 testing data, \$3: prediction.csv

Policy

Kaggle Rank(4%): top10% 4; top20% 3.5; top50% 3;

beyond baseline 2

Report.pdf(4%): PDF, less than 2 pages, not include code.

1. (1%) Logistic regression function.

2. (1%) Describe your another method, and which one is best.

3. (2%) TA depend on your other discussion and detail.

另外請在 report 上註明討論的對象, if any.

LaTex: https://www.latex-project.org/

Format/github error (2%)

Policy

Other policy:

任一 script 錯誤(0分), 若是格式錯誤, 請來找助教修好(format part*0.5)

遲交每24小時(*0.7); 遲交超過 48 小時不收, 有特殊原因請洽助教。

遲交表單: https://goo.gl/K5aY81 (kaggle無法遲交)

Any form of cheating, lying, or plagiarism will not be tolerated. Students can get zero scores and/or fail the class and/or be kicked out of school and/or receive other punishments for those kinds of misconducts.

FAQ

1. Anything about github?

https://github.com/Kunena/Kunena-Forum/wiki/Create-a-new-branch-with-git-and-manage-branches

2. Library 限制之問題

如果有使用到不知道能不能使用的library, 請寫信或在FB社團上, 跟助教確認並簡述用途, 基本上如果是用來處理data的library都是可以的。

3. 請多用 facebook 問問題, 你有問題的話, 代表別人也有問題:)