BigML Assignment 2: Small Memory Footprint Streaming

Naive Bayes

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Did you receive any help whatsoever from anyone in solving this assignment? No

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Q1

For Accuracy, both of the datasets are almost the same. For the runtime, the links datasets is slower than the abstract dataset.

The tokens in the links dataset are much longer, they will consume more memory to build the hashtable.

Q2

|  |  |
| --- | --- |
| Assignment1 | 8.05s |
| Assignment2 | 80.26s |

Use a shell script to measure the time

#!/bin/bash

start\_time=`date +%s`

for i in 1 2 3 4 5 6 7 8 9 10

do

cat RCV1.small\_train.txt | java -Xmx128m NBTrain |

sort -k1,1 -t ';' -T . | java -Xmx128m MergeCounts > /dev/null

done

end\_time=`date +%s`

echo execution time was `(expr $end\_time - $start\_time)` s.

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Q3

We can do feature selection.

For example, use correlation feature selection. The feature with higher correlation will be more informative.