

PHASE 1

Input splits:

key: category name
value: review

Mapper:

creates one perceptron per category
parses review
trains perceptron on review

Input:

key: category name
value: weight vector

Reducer:

gets all weight vectors of one category
calculates average weight vector

PHASE 2

Input splits:

key: feature
value: weight vector value

Mapper:

returns feature-value pairs to reducer

Input:

key: feature
value: weight vector value

Reducer:

gets all values of one feature
calculates l2 norm and average value