

# newMultinomialNB

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September 26, 2018

## 1 Lab 2 - 1

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**Algorithm 1** newMultinomialNB-Original

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```
1: procedure APPLYMULTINOMIALNB( $c, v, prior, condprob, d$ )  $\triangleright$  parameters
2:    $W \leftarrow ExtractTermsFromDocuments(v, d)$ 
     for each  $c$  belongs  $\mathbf{C}$ 
        $do\ score[c] \leftarrow \log\ prior[c]$ 
       for each  $t$  belongs  $\mathbf{W}$ 
          $do\ score[c] += \log\ condprob[t][c]$ 
3:   return  $arg\ max_{cec}\ score[c]$   $\triangleright$  The gcd is b
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**Algorithm 2** newMultinomialNB

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```
1: procedure APPLYMULTINOMIALNB( $c, v, prior, condprob, d$ )  $\triangleright$  parameters
2:    $W \leftarrow ExtractTermsFromDocuments(v, d)$ 
     for each  $t$  belongs  $\mathbf{W}$ 
        $do\ score[c] \leftarrow \log\ prior[c]$ 
       for each  $c$  belongs  $\mathbf{C}$ 
          $do\ score[c] += \log\ condprob[t][c]$ 
3:   return  $arg\ max_{cec}\ score[c]$   $\triangleright$  The gcd is b
```

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