**Question:**

Consider the following sentences authored by three different authors: Haris, Rizwan and James. Use Naïve Bayes to categorize the given test sentence among these three authors. Use bag-of-words, Laplace (Add-1) smoothing, and ignore all punctuation. Show your work to get credit.

|  |  |
| --- | --- |
| Haris |  |
| 1 | a box of chocolates |
| 2 | fresh dark chocolates |
| 3 | make a chocolate milkshake |

|  |  |
| --- | --- |
| Rizwan |  |
| 1 | a box of lemons |
| 2 | fresh yellow lemons |
| 3 | make a lemonade |

|  |  |
| --- | --- |
| James |  |
| 1 | a box of strawberries |
| 2 | fresh red strawberries |
| 3 | make a strawberry milkshake |

|  |  |
| --- | --- |
| Test |  |
| 1 | make box shaped chocolates, want red lemonade |



