

**CS491 – Natural Language Processing**

**ACADEMIC YEAR – 2021-2022**

**Semester - VII**

LAB – IV

BY:

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BT18GEC134

CODE:

**import re**

**from collections import Counter**

**from nltk import word\_tokenize**

**from nltk import ngrams**

**s = '''First things first**

**I'ma say all the words inside my head**

**I'm fired up and tired of the way that things have been,**

**The way that things have been, oh'''**

**s = s.lower()**

**s = re.sub(r"[,;@#&$]+\ \*", " ", s)**

**tokens = word\_tokenize(s)**

**print(len(tokens))**

**unigram = list(ngrams(tokens, 1))**

**bigram = list(ngrams(tokens, 2))**

**final\_unigram = Counter()**

**final\_bigram = Counter()**

**count\_matrix = []**

**count\_probabilitymatrix = []**

**for i in unigram:**

**final\_unigram[i] += 1**

**for i in bigram:**

**final\_bigram[i] += 1**

**vocab = len(set(final\_unigram))**

**print("Unigram \tCount \tProbability")**

**[print(f"{i}\t{final\_unigram[i]}\t1") for i in final\_unigram]**

**for word1 in unigram:**

**count = []**

**count\_probability = []**

**for word2 in unigram:**

**element = (word1[0], word2[0])**

**if element in bigram:**

**count.append(final\_bigram[element])**

**count\_probability.append(**

**final\_bigram[element]/final\_unigram[word1])**

**print("{:<15} {:<8} {:<10}".format(**

**word1[0]+','+word2[0], final\_bigram[element], final\_bigram[element]/final\_unigram[word1]))**

**else:**

**print("{:<15} {:<8} {:<10}".format(word1[0]+','+word2[0], 0, 0))**

**count.append(0)**

**count\_probabilitymatrix.append(count\_probability)**

**count\_matrix.append(count)**

**# Add 1 methoddd**

**for word1 in unigram:**

**count = []**

**count\_probability = []**

**for word2 in unigram:**

**element = (word1[0], word2[0])**

**count.append(final\_bigram[element])**

**count\_probability.append(**

**(final\_bigram[element]+1)/final\_unigram[word1])**

**print("{:<15} {:<8} {:<10}".format(**

**word1[0]+','+word2[0], final\_bigram[element]+1, (final\_bigram[element]+1)/(final\_unigram[word1]+vocab)))**

**count\_probabilitymatrix.append(count\_probability)**

**count\_matrix.append(count)**

**#add 1 to numerator and vocab(unique words length) to denominator**

OUTPUT:

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Unigram Count Probability

('first',) 2 1

('things',) 3 1

("i'ma",) 1 1

('say',) 1 1

('all',) 1 1

('the',) 3 1

('words',) 1 1

('inside',) 1 1

('my',) 1 1

('head',) 1 1

('i',) 1 1

("'m",) 1 1

('fired',) 1 1

('up',) 1 1

('and',) 1 1

('tired',) 1 1

('of',) 1 1

('way',) 2 1

('that',) 2 1

('have',) 2 1

('been',) 2 1

('oh',) 1 1

first,first 0 0

first,things 1 0.5

first,first 0 0

first,i'ma 1 0.5

first,say 0 0

first,all 0 0

first,the 0 0

first,words 0 0

first,inside 0 0

first,my 0 0

first,head 0 0

first,i 0 0

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first,fired 0 0

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first,tired 0 0

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first,way 0 0

first,that 0 0

first,things 1 0.5

first,have 0 0

first,been 0 0

first,the 0 0

first,way 0 0

first,that 0 0

first,things 1 0.5

first,have 0 0

first,been 0 0

first,oh 0 0

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things,things 0 0

things,first 1 0.3333333333333333

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i'ma,words 0 0

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CONCLUSION

In the add 1method the count cannot be 0

Probability also can’t be 0 due to the addition of 1 in numerator.