N-GRAM REPORT FOR THE ASSIGNMENT AJAY SINGH (AXS180099)

For n> 3 or n<2 N Should Be 2 OR 3

For b<0 or b>1 b Should Be 0 OR 1

For n= 2 and b=0 (BIGRAM WITHOUT SMOOTHING)

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is': 0.25, 'is a': 0.1364522417153996, 'a gifted': 0.0, 'gifted violinist': 0.0, 'violinist who': 0.3333333333333333, 'who creates': 0.0, 'creates all': 0.0, 'all sorts': 0.00819672131147541, 'sorts of': 1.0, 'of sounds': 0.0, 'sounds and': 0.0, 'and arrangements': 0.0}

Probabilty of Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements . $0.0\,$

Probabilty of Statement: It was a strange and emotional thing to be at the opera on a Friday night 0.0

For n=2 and b=1 (BIGRAM WITH SMOOTHING)

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is': 0.00011588828369451848, 'is a': 0.0001094331363536879, 'a gifted': 0.00010527423939362039, 'gifted violinist': 0.0001159151501101194, 'violinist who': 0.0001159017153453871, 'who creates': 0.00011424654404204273, 'creates all': 0.00011592858798979828, 'all sorts': 0.00011432491139819366, 'sorts of': 0.00011592858798979828, 'of sounds': 0.00010076582023377671, 'sounds and': 0.0001159017153453871, 'and arrangements': 0.00010279605263157894}

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is': 0.00011588828369451848, 'is a': 0.0001094331363536879, 'a gifted': 0.00010527423939362039, 'gifted violinist': 0.0001159151501101194, 'violinist who': 0.0001159017153453871, 'who creates': 0.00011424654404204273, 'creates all': 0.00011592858798979828, 'all sorts': 0.00011432491139819366, 'sorts of': 0.00011592858798979828, 'of sounds': 0.00010076582023377671, 'sounds and': 0.0001159017153453871, 'and arrangements': 0.00010279605263157894}

Probabilty of Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements . 3.7799420223540856e-48

Probabilty of Statement : It was a strange and emotional thing to be at the opera on a Friday night . 4.5608059827320916e-60

For n=3 and b=0 (TRIGRAM WITHOUT SMOOTHING)

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is a': 0.25, 'is a gifted': 0.0, 'a gifted violinist': 0.0, 'gifted violinist who': 0.0, 'violinist who creates': 0.0, 'who creates all': 0.0, 'creates all sorts': 0.0, 'all sorts of': 0.00819672131147541, 'sorts of sounds': 0.0, 'of sounds and': 0.0, 'sounds and arrangements': 0.0}

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is a': 0.25, 'is a gifted': 0.0, 'a gifted violinist': 0.0, 'gifted violinist who': 0.0, 'violinist who creates': 0.0, 'who creates all': 0.0, 'creates all sorts': 0.0, 'all sorts of': 0.00819672131147541, 'sorts of sounds': 0.0, 'of sounds and': 0.0, 'sounds and arrangements': 0.0}

Probabilty of Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements . $0.0\,$

Probabilty of Statement: It was a strange and emotional thing to be at the opera on a Friday night 0.0

For n=3 and b=1 (TRIGRAM WITH SMOOTHING)

Probability Matrix for Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements .

{'Milstein is a': 0.00011588828369451848, 'is a gifted': 0.0001094331363536879, 'a gifted violinist': 0.00010527423939362039, 'gifted violinist who': 0.0001159151501101194, 'violinist who creates': 0.0001159017153453871, 'who creates all': 0.00011424654404204273, 'creates all sorts': 0.00011592858798979828, 'all sorts of': 0.00011432491139819366, 'sorts of sounds': 0.00011592858798979828, 'of sounds and': 0.00010076582023377671, 'sounds and arrangements': 0.0001159017153453871}

Probability Matrix for Statement for Statement: Milstein is a gifted violinist who creates all sorts of sounds and arrangements.

{'Milstein is a': 0.00011588828369451848, 'is a gifted': 0.0001094331363536879, 'a gifted violinist': 0.00010527423939362039, 'gifted violinist who': 0.0001159151501101194, 'violinist who creates': 0.0001159017153453871, 'who creates all': 0.00011424654404204273, 'creates all sorts': 0.00011592858798979828, 'all sorts of': 0.00011432491139819366, 'sorts of sounds': 0.00011592858798979828, 'of sounds and': 0.00010076582023377671, 'sounds and arrangements': 0.0001159017153453871}

Probabilty of Statement : Milstein is a gifted violinist who creates all sorts of sounds and arrangements . 3.6771275993460545e-44

Probabilty of Statement : It was a strange and emotional thing to be at the opera on a Friday night . 3.9341512407047024e-56