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CSE 40657
HW 5 Option A

1.   Line 1: log P($\mathbf{f}$|$\mathbf{e}$) = -29.75829773495849
       Line 2: log P($\mathbf{f}$|$\mathbf{e}$) = -7.919597206475263
       Line 3: log P($\mathbf{f}$|$\mathbf{e}$) = -16.36530328442846
       Line 4: log P($\mathbf{f}$|$\mathbf{e}$) = -22.128913938907854
       Line 5: log P($\mathbf{f}$|$\mathbf{e}$) = -17.963379843049626

2.   Iteration 0 log-probability: -32819.8398447001
       Iteration 1 log-probability: -31985.407177704034
       Iteration 2 log-probability: -30159.997146683367
       Iteration 3 log-probability: -29597.504855574312
       Iteration 4 log-probability: -29330.92891956239
       Iteration 5 log-probability: -29162.63774854276
       Iteration 6 log-probability: -29045.411191276333
       Iteration 7 log-probability: -28951.57127934593
       Iteration 8 log-probability: -28873.2349848216
       Iteration 9 log-probability: -28793.404963647405
       Iteration 10 log-probability: -28700.698168868425

       t(绝地|jedi) = 0.5363809590770554
       t(机械人|droid) = 0.38983641621139636
       t(原力|force) = 0.8495016997036383
       t(原虫|midi-chlorians) = 0.20291822714084087
       t(你|yousa) = 0.22204542477706696

3.   Alignments for first five lines:
       0-3 2-3 3-3 4-3 5-3 6-3
       0-1 1-1
       0-0 1-0 2-0 3-0 4-5
       0-0 1-0 2-0 3-0 4-0 5-0
       0-6 1-6 2-0 3-6 4-8

       With NULL alignments:
       predicted alignments: 6847
       true alignments: 11177
       matched alignments: 4503
       precision: 0.6576602891777421
       recall: 0.4028809161671289
       F1 score: **0.49966711051930757**