

$AI611\mu\ Word\ Prediction\ with\ N\mbox{-}Grams\ Model\ using\ Python$

Quizz 2: Bigram model training

This assessment evaluates the following competencies:

- AI201 Train an N-Grams model from a given text corpus (+1)
- AI102 Formally describe N-Grams models thanks to probabilities (+1)
- AI501 Write an application that solves the word prediction problem with N-Grams models (+1)

For the two first assessed competencies (AI201 and AI102), you have to complete the bigram model of the following corpus with six sentences: "I like to eat Chinese food. Chinese people like to eat noodles. You like to drink a lot. I drink a lot of water. Chinese people drink water. I eat Chinese noodles.". Find the two missing values and detail your calculation:

	i	like	to	eat	chinese	food	people	noodles	you	drink	a	lot	of	water
i	0	0,33	0	0,33	0	0	0	0	0	0,33	0	0	0	0
like	0	0	1	0	0	0	0	0	0	0	0	0	0	0
to	0	0	0	0,67	0	0	0	0	0	$0,\!33$	0	0	0	0
eat	0	0	0	0	0,67	0	0		0	0	0	0	0	0
chinese	0	0	0	0	0	$0,\!25$	0,5	$0,\!25$	0	0	0	0	0	0
food	0	0	0	0	0	0	0	0	0	0	0	0	0	0
people	0		0	0	0	0	0	0	0	0,5	0	0	0	0
noodles	0	0	0	0	0	0	0	0	0	0	0	0	0	0
you	0	1	0	0	0	0	0	0	0	0	0	0	0	0
drink	0	0	0	0	0	0	0	0	0	0	$0,\!67$	0	0	$0,\!33$
a	0	0	0	0	0	0	0	0	0	0	0	1	0	0
lot	0	0	0	0	0	0	0	0	0	0	0	0	0,5	0
of	0	0	0	0	0	0	0	0	0	0	0	0	0	1
water	0	0	0	0	0	0	0	0	0	0	0	0	0	0