

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	91.4 %	89.19 %	73.68 %	93.07 %	19	202
B (رقم)	99.44 %	49.86 %	100.0 %	99.4 %	10	167
C (إسم معرف)	91.38 %	53.31 %	87.5 %	91.77 %	16	158
D (إضافة)	84.62 %	64.01 %	42.11 %	90.0 %	19	150
E (منعوت)	94.12 %	61.96 %	100.0 %	93.9 %	6	164
F (نعت)	87.37 %	56.33 %	78.26 %	88.62 %	23	167
G (حرف جر)	95.65 %	32.59 %	NULL	95.65 %	0	46
H (إسم مجرور)	65.0 %	44.76 %	41.18 %	82.61 %	17	23
I (وحدة قياس)	98.86 %	49.71 %	100.0 %	98.85 %	1	87
J (واو العطف)	97.06 %	49.25 %	NULL	97.06 %	0	34
K (فعل مبني للمجهول)	88.46 %	46.94 %	75.0 %	94.44 %	8	18
L (المفعول المطلق)	0.0 %	0.0 %	0.0 %	NULL	3	0
M (أداة عطف غير واو العطف)	80.0 %	44.44 %	NULL	80.0 %	0	5
.	99.75 %	49.94 %	NULL	99.75 %	0	811

Table 1: Performances for each tag using our ingredient extractor for fold 1 with $\lambda = 4$ when accuracy is 100% on first layer

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	unknown words percentage
0	95.78 %	67.91 %	61.11 %	97.38 %	78	9.67 %
1	94.34 %	66.51 %	68.85 %	95.87 %	107	13.26 %
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

Table 2: Performances in predicting ingredients states for fold 1 with $\lambda = 4$ when accuracy is 100% on first layer