

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	95.13 %	93.79 %	90.91 %	95.35 %	11	215
B (رقم)	100.0 %	100.0 %	100.0 %	100.0 %	12	196
C (إسم معرف)	93.02 %	47.0 %	81.25 %	94.23 %	16	156
D (إضافة)	84.21 %	81.67 %	57.14 %	86.62 %	14	157
E (منعوت)	89.21 %	85.81 %	30.0 %	93.8 %	10	129
F (نعت)	86.86 %	83.8 %	85.0 %	87.1 %	20	155
G (حرف جر)	89.47 %	47.22 %	50.0 %	91.67 %	2	36
H (إسم مجرور)	65.0 %	46.18 %	33.33 %	78.57 %	12	28
I (وحدة قياس)	100.0 %	100.0 %	100.0 %	100.0 %	4	97
J (واو العطف)	96.77 %	49.18 %	NULL	96.77 %	0	31
K (فعل مبني للمجهول)	100.0 %	100.0 %	100.0 %	100.0 %	2	23
L (المفعول المطلق)	0.0 %	0.0 %	NULL	0.0 %	0	1
M (أداة عطف غير واو العطف)	100.0 %	100.0 %	NULL	100.0 %	0	13
.	99.87 %	49.97 %	NULL	99.87 %	0	787

Table 1: Performances in predicting ingredients states for fold 4 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	94.98 %	67.32 %	67.96 %	96.44 %	88	10.9 %
3	95.83 %	67.71 %	62.65 %	97.25 %	75	9.29 %
4	94.88 %	67.76 %	71.84 %	96.05 %	92	11.4 %
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

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