

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	96.35 %	95.5 %	84.62 %	97.09 %	13	206
B (رقم)	100.0 %	100.0 %	100.0 %	100.0 %	1	190
C (إسم معرف)	83.73 %	42.12 %	37.5 %	88.67 %	16	150
D (إضافة)	76.79 %	77.01 %	24.0 %	86.01 %	25	143
E (منعوت)	96.55 %	96.17 %	60.0 %	99.26 %	10	135
F (نعت)	82.82 %	82.09 %	53.85 %	85.33 %	13	150
G (حرف جر)	100.0 %	100.0 %	100.0 %	100.0 %	1	46
H (إسم مجرور)	76.92 %	50.53 %	40.0 %	89.66 %	10	29
I (وحدة قياس)	100.0 %	100.0 %	100.0 %	100.0 %	1	73
J (واو العطف)	100.0 %	100.0 %	NULL	100.0 %	0	31
K (فعل مبني للمجهول)	86.67 %	46.43 %	87.5 %	86.49 %	8	37
L (المفعول المطلق)	NULL	NULL	NULL	NULL	0	0
M (أداة عطف غير واو العطف)	87.5 %	46.67 %	NULL	87.5 %	0	8
.	99.87 %	49.97 %	NULL	99.87 %	0	784

Table 1: Performances for each tag using our ingredient extractor for fold 7 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	95.9 %	69.57 %	70.79 %	97.0 %	83	10.29 %
6	94.43 %	65.92 %	55.81 %	96.08 %	80	9.91 %
7	94.04 %	65.54 %	51.02 %	96.17 %	90	11.15 %
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

Table 2: Performances in predicting ingredients states for fold 7 with $\lambda = 4$ when accuracy is 100% on first layer