

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	97.22 %	96.1 %	61.54 %	99.51 %	13	203
B (رقم)	99.52 %	49.88 %	50.0 %	100.0 %	2	206
C (إسم معرف)	90.6 %	93.69 %	50.0 %	94.81 %	14	135
D (إضافة)	85.43 %	63.59 %	43.48 %	92.97 %	23	128
E (منعوت)	98.64 %	98.38 %	80.0 %	99.3 %	5	142
F (نعت)	79.75 %	53.39 %	60.0 %	81.08 %	10	148
G (حرف جر)	100.0 %	100.0 %	NULL	100.0 %	0	51
H (إسم مجرور)	83.78 %	56.08 %	54.55 %	96.15 %	11	26
I (وحدة قياس)	100.0 %	100.0 %	100.0 %	100.0 %	2	111
J (واو العطف)	100.0 %	100.0 %	NULL	100.0 %	0	37
K (فعل مبني للمجهول)	71.43 %	48.57 %	50.0 %	75.0 %	6	36
L (المفعول المطلق)	100.0 %	100.0 %	NULL	100.0 %	0	1
M (أداة عطف غير واو العطف)	85.71 %	46.15 %	NULL	85.71 %	0	7
.	100.0 %	100.0 %	NULL	100.0 %	0	392

Table 1: Performances for each tag using a first order HMM for fold 6

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	unknown words percentage
0	94.77 %	67.67 %	67.78 %	96.33 %	78	9.67 %
1	92.96 %	65.52 %	63.93 %	95.14 %	107	13.26 %
2	94.03 %	67.36 %	69.9 %	95.68 %	88	10.9 %
3	93.95 %	87.84 %	62.65 %	95.64 %	75	9.29 %
4	92.91 %	87.29 %	66.99 %	94.54 %	92	11.4 %
5	95.78 %	69.61 %	76.4 %	96.83 %	83	10.29 %
6	94.38 %	67.53 %	54.65 %	96.49 %	80	9.91 %
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

Table 2: Performances using a first order HMM for fold 6