

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	94.19 %	61.37 %	80.65 %	96.19 %	31	210
B (رقم)	98.68 %	74.66 %	80.0 %	99.32 %	5	146
C (إسم معرف)	92.59 %	92.16 %	66.67 %	95.83 %	18	144
D (إضافة)	89.44 %	67.2 %	76.47 %	90.97 %	17	144
E (منعوت)	99.33 %	99.45 %	75.0 %	100.0 %	4	146
F (نعت)	78.92 %	68.94 %	68.42 %	80.27 %	19	147
G (حرف جر)	100.0 %	100.0 %	NULL	100.0 %	0	26
H (إسم مجرور)	78.95 %	53.57 %	40.0 %	92.86 %	5	14
I (وحدة قياس)	100.0 %	100.0 %	NULL	100.0 %	0	79
J (واو العطف)	96.3 %	49.06 %	NULL	96.3 %	0	27
K (فعل مبني للمجهول)	50.0 %	22.22 %	0.0 %	66.67 %	3	9
L (المفعول المطلق)	0.0 %	0.0 %	0.0 %	NULL	1	0
M (أداة عطف غير واو العطف)	83.33 %	45.45 %	NULL	83.33 %	0	6
.	100.0 %	100.0 %	NULL	100.0 %	0	406

Table 1: Performances for each tag using a first order HMM for fold 2

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	93.02 %	65.56 %	63.93 %	95.2 %	107	13.26 %
2	94.15 %	67.44 %	69.9 %	95.81 %	88	10.9 %
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

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