

tag	accuracy	f1 score	accuracy for unknown words	accuracy for known words	number of unknown words	number of known words
A (إسم)	95.5 %	63.38 %	73.68 %	97.54 %	19	203
B (رقم)	100.0 %	100.0 %	100.0 %	100.0 %	10	167
C (إسم معرف)	91.38 %	93.69 %	56.25 %	94.94 %	16	158
D (إضافة)	86.98 %	65.18 %	73.68 %	88.67 %	19	150
E (منعوت)	97.63 %	98.0 %	66.67 %	98.77 %	6	163
F (نعت)	77.25 %	64.62 %	65.22 %	78.92 %	23	166
G (حرف جر)	93.48 %	48.31 %	NULL	93.48 %	0	46
H (إسم مجرور)	65.0 %	49.24 %	35.29 %	86.96 %	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)	76.92 %	28.99 %	50.0 %	88.89 %	8	18
L (المفعول المطلق)	33.33 %	16.67 %	33.33 %	NULL	3	0
M (أداة عطف غير واو العطف)	80.0 %	44.44 %	NULL	80.0 %	0	5
.	100.0 %	100.0 %	NULL	100.0 %	0	406

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

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	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
Avg	-	-	-	-	-	-

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