

Practical 3: Disambiguation- Report

Kumar Vinayak

Metrics	Precision	Recall	F1 Score	AligndAcc
Tokens	100.00	100.00	100.00	
Sentences	100.00	100.00	100.00	
Words	100.00	100.00	100.00	
UPOS	96.34	96.34	96.34	96.34
XPOS	100.00	100.00	100.00	100.00
Feats	100.00	100.00	100.00	100.00
AllTags	96.34	96.34	96.34	96.34
Lemmas	100.00	100.00	100.00	100.00
UAS	100.00	100.00	100.00	100.00
LAS	100.00	100.00	100.00	100.00

```
(base) kumarvinayak@Kumars-MacBook-Air conllu-perceptron-tagger %
```

Initially it was 96.34 accuracy.

Then I added the below code and my accuracy changed from 96.34 to 96.25

(It got decreased)

```
#add('i-1 suffix', context[i - 1][-3:]) #new
#add('i+2 suffix', context[i - 2][-3:]) #new
#add('i+2 suffix', context[i+1][-3:]) #new
```

Metrics	Precision	Recall	F1 Score	AligndAcc
Tokens	100.00	100.00	100.00	
Sentences	100.00	100.00	100.00	
Words	100.00	100.00	100.00	
UPOS	96.25	96.25	96.25	96.25
XPOS	100.00	100.00	100.00	100.00
Feats	100.00	100.00	100.00	100.00
AllTags	96.25	96.25	96.25	96.25
Lemmas	100.00	100.00	100.00	100.00
UAS	100.00	100.00	100.00	100.00
LAS	100.00	100.00	100.00	100.00

```
(base) kumarvinayak@Kumars-MacBook-Air conllu-perceptron-tagger %
```

Then I changed the code to

```
add('i-2 suffix', context[i+1][-1:]) #new # increase from 96.21 to 96.32
add('i+2 suffix', context[i - 1][-2:]) #new # increase from 96.21 to 96.32
add('i+2 suffix', context[i+1][-3:]) #new # increase from 96.21 to 96.32
```

The accuracy changed from 96.25 to 96.31

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Metrics	Precision	Recall	F1 Score	AligndAcc
Tokens	100.00	100.00	100.00	
Sentences	100.00	100.00	100.00	
Words	100.00	100.00	100.00	
UPOS	96.31	96.31	96.31	96.31
XPOS	100.00	100.00	100.00	100.00
Feats	100.00	100.00	100.00	100.00
AllTags	96.31	96.31	96.31	96.31
Lemmas	100.00	100.00	100.00	100.00
UAS	100.00	100.00	100.00	100.00
LAS	100.00	100.00	100.00	100.00

(base) kumarvinayak@Kumars-MacBook-Air conllu-perceptron-tagger %

After that I changed the code to

```
add('i-2 word', context[i-1][-1:]) #new 2 increased from 96.32 to 96.39
add('i+2 suffix', context[i-1][-2:]) #new 2 increased from 96.32 to 96.39
add('i+2 suffix', context[i+1][-3:]) #new 2 increased from 96.32 to 96.39
accuracy changed to 96.39
```

Metrics	Precision	Recall	F1 Score	AligndAcc
Tokens	100.00	100.00	100.00	
Sentences	100.00	100.00	100.00	
Words	100.00	100.00	100.00	
UPOS	96.39	96.39	96.39	96.39
XPOS	100.00	100.00	100.00	100.00
Feats	100.00	100.00	100.00	100.00
AllTags	96.39	96.39	96.39	96.39
Lemmas	100.00	100.00	100.00	100.00
UAS	100.00	100.00	100.00	100.00
LAS	100.00	100.00	100.00	100.00

(base) kumarvinayak@Kumars-MacBook-Air conllu-perceptron-tagger

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