

Testing on the pos.test file which is provided along with pos.data folder

Without any Features:

macroF_Score is 0.604876,
macroPrecision is 0.669493
macroRecall is 0.551634

Without any Feature and when order is 1:

macroF_Score is 0.604876,
macroPrecision is 0.669493
macroRecall is 0.551634

Without any Feature and when order is 2:

Able to create the model but got out of bound exception when testing using the model.

Without any Feature and when the model is HMM

macroF_Score is 0.577666,
macroPrecision is 0.698057
macroRecall is 0.492694

First set of feature that were added: (Special Characters, Numericals)

macroF_Score is 0.604586,
macroPrecision is 0.658884
macroRecall is 0.558556

Second set of feature that were added: (Special Characters, Numericals + AllCaps, Mixed Caps)

macroF_Score is 0.615265,
macroPrecision is 0.669704
macroRecall is 0.569011

Third set of feature that were added: (Special Characters, Numericals + AllCaps, Mixed Caps + Mention, HashTag)

macroF_Score is 0.665307,
macroPrecision is 0.714408
macroRecall is 0.622522

Final set of feature (Special Characters, Numericals + AllCaps, Mixed Caps + Mention, HashTag + urls, Atopwords, Apostrophes)

macroF_Score is **0.715456**,
macroPrecision is **0.747572**
macroRecall is **0.685985**

Testing on the ner.test file which is provided along with ner.data folder

Without any Features:

macroF_Score is 0.020052,
macroPrecision is 0.855556
macroRecall is 0.010145

Without any Feature and when order is 1:

macroF_Score is 0.020052,
macroPrecision is 0.855556
macroRecall is 0.010145

Without any Feature and when order is 2:

macroF_Score is 0.000000,
macroPrecision is 0.833333
macroRecall is 0.000000

Without any Feature and when the model is HMM

macroF_Score is 0.018549,
macroPrecision is 0.523810
macroRecall is 0.009442

First set of feature that were added: (Special Characters, Numericals)

macroF_Score is 0.020052,
macroPrecision is 0.855556
macroRecall is 0.010145

Second set of feature that were added: (Special Characters, Numericals + AllCaps, Mixed Caps)

macroF_Score is 0.099497,
macroPrecision is 0.582158
macroRecall is 0.054397

Third set of feature that were added: (Special Characters, Numericals + AllCaps, Mixed Caps + Mention, HashTag)

macroF_Score is 0.000000,
macroPrecision is 1.000000
macroRecall is 0.000000

Fourth set of feature (Special Characters, Numericals + AllCaps, Mixed Caps + Mention, HashTag + urls, Atopwords, Apostrophes)

macroF_Score is 0.143542,
macroPrecision is 0.585304
macroRecall is 0.081802

Final set of feature (Special Characters, Numericals + AllCaps, Mixed Caps + Mention, HashTag + urls, Atopwords, Apostrophes + pos)

macroF_Score is 0.168778,
macroPrecision is 0.466936
macroRecall is 0.103005