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Precision, Recall, F- Measure calculation

Advanced = positive
class

Not advanced
(beginner) = negative
class

👤 True Positive(14)

🐱 True Negative(4)

👤 False Positive(2)

🐱 False Negative(4)

Precision =
TruePositives /
(TruePositives +
FalsePositives)
=
14/(14+2)
= 7/8
= 0.875

Recall = TruePositives
/ (TruePositives +
FalseNegatives)
=
14/(14+4)
= 7/9
=0.777777
7778

F-Measure = (2 *
Precision * Recall) /
(Precision + Recall)
= (2 * 7/8
* 7/9) /
(7/8 +
7/9)
=14/17
=0.823529
4118

Results

Should result in
beginner

['beginner'] 🐱 PN

['beginner'] 🐱 PN

['advance'] 👤 NP

['beginner'] 🐱 PN

['advance'] 👤 NP

['beginner'] 🐱 PN

Should result in
advance

['beginner'] 🐸 NN

['advance'] 🐶 PP

['beginner'] 🐸 NN

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['beginner'] 🐸 NN

['beginner'] 🐸 NN

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP

['advance'] 🐶 PP