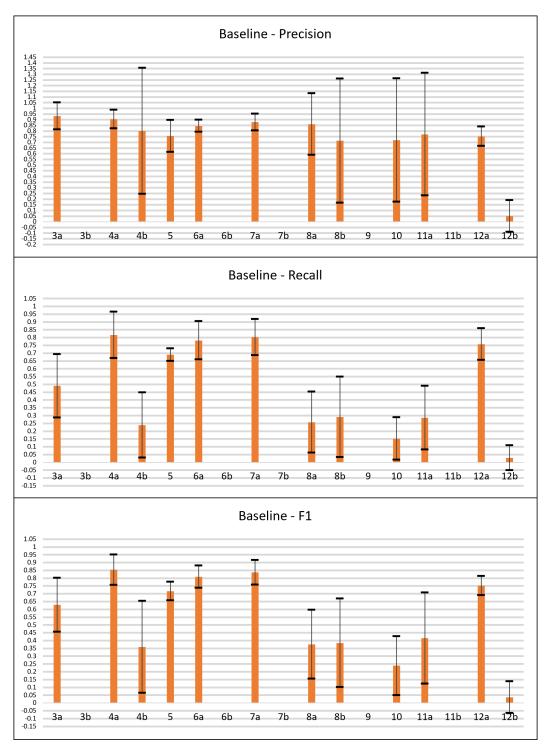
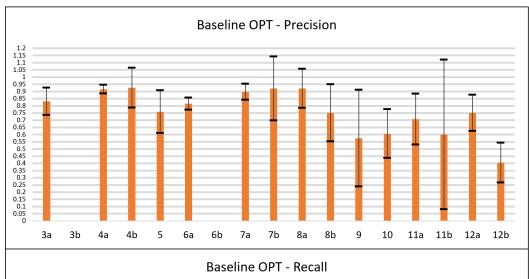
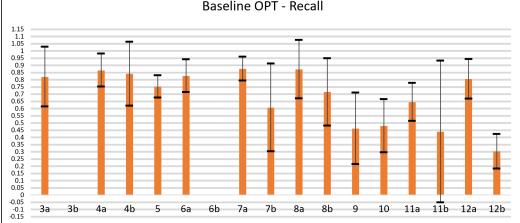
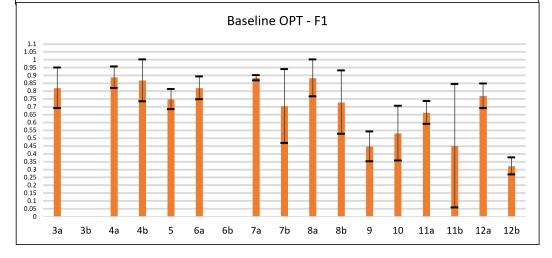
## **Appendix**

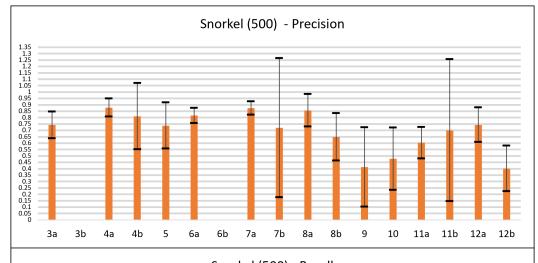
Precision, recall, and  $F_1$  scores and the related confidence intervals for the four models discussed are provided below (BASELINE, BASELINE\_OPT, SNORKEL (500), and UMLS-EDA (50)).

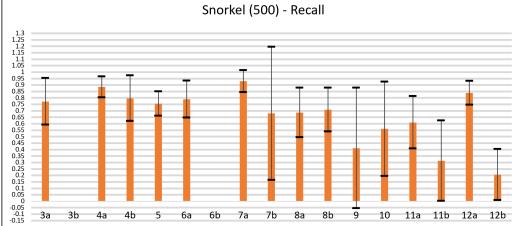


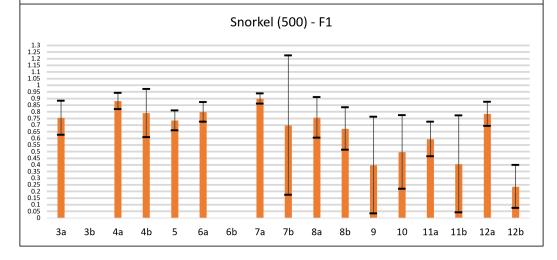


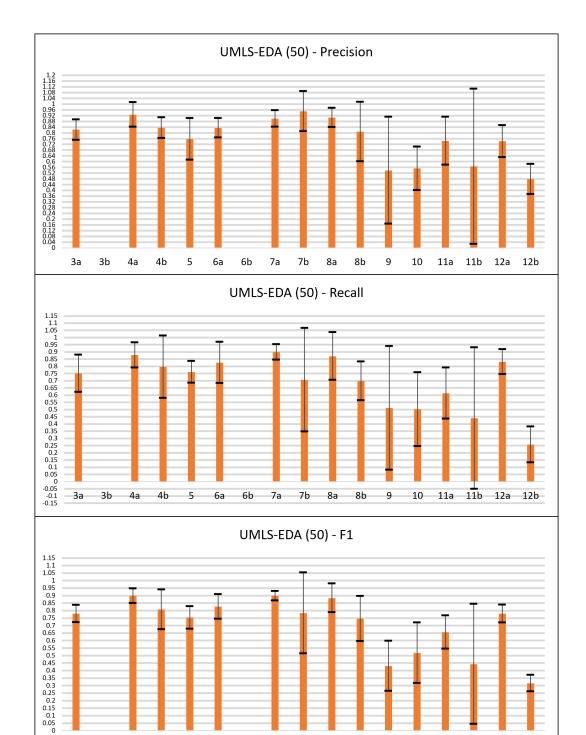












За

3b

4a

4b

5

6a

6b

7a

7b

8a

8b

9

10

11a

11b

12a

12b