F1-score for "buy\_computer = yes": F1\_yes = F1 = 2 \* (precision \* recall) / (precision + recall)

F1\_yes = 2 \* (6000 / 6500 \* 6000 / 7000) / (6000 / 6500 + 6000 / 7000) F1\_yes ≈ 0.8571

F1-score for "buy\_computer = no": F1\_yes = F1 = 2 \* (precision \* recall) / (precision + recall)

F1\_no = 2 \* (2500 / 3500 \* 2500 / 3500) / (2500 / 3500 + 2500 / 3500) F1\_no ≈ 0.7143

Weighted Average F1 = (F1\_yes \* (buy\_computer = yes count) + F1\_no \* (buy\_computer = no count)) / Total count Weighted Average

F1 = (0.8571 \* 7000 + 0.7143 \* 3500) / 10000

F1 ≈ 0.8135