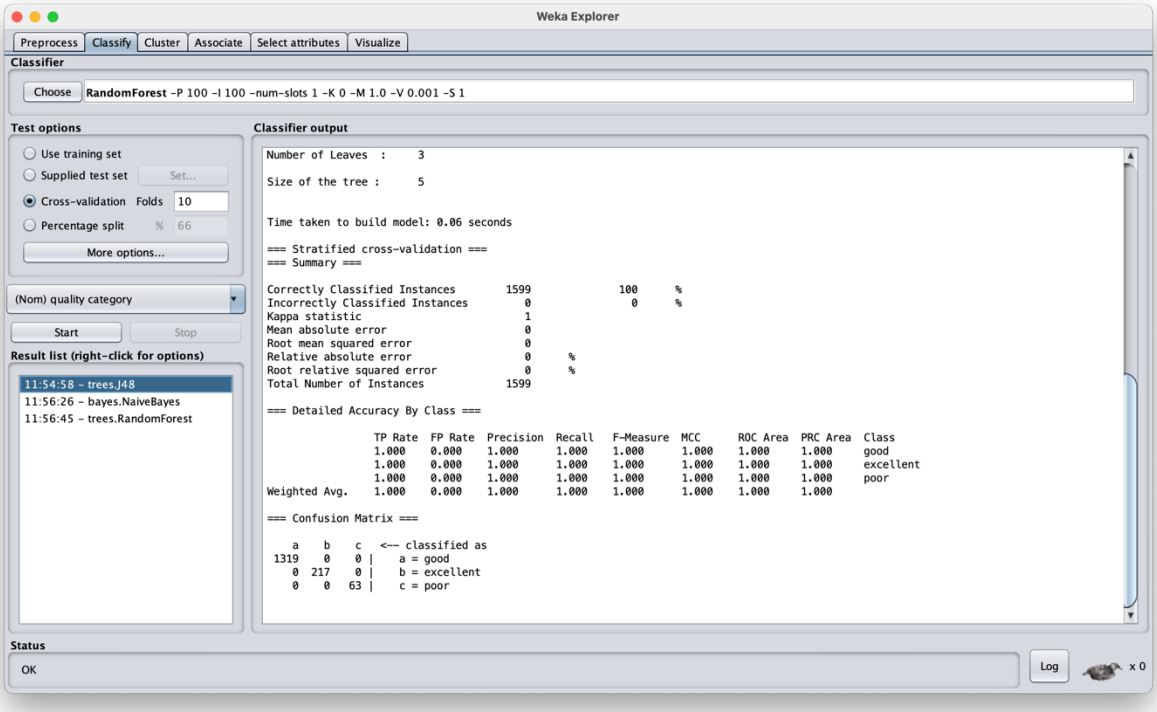
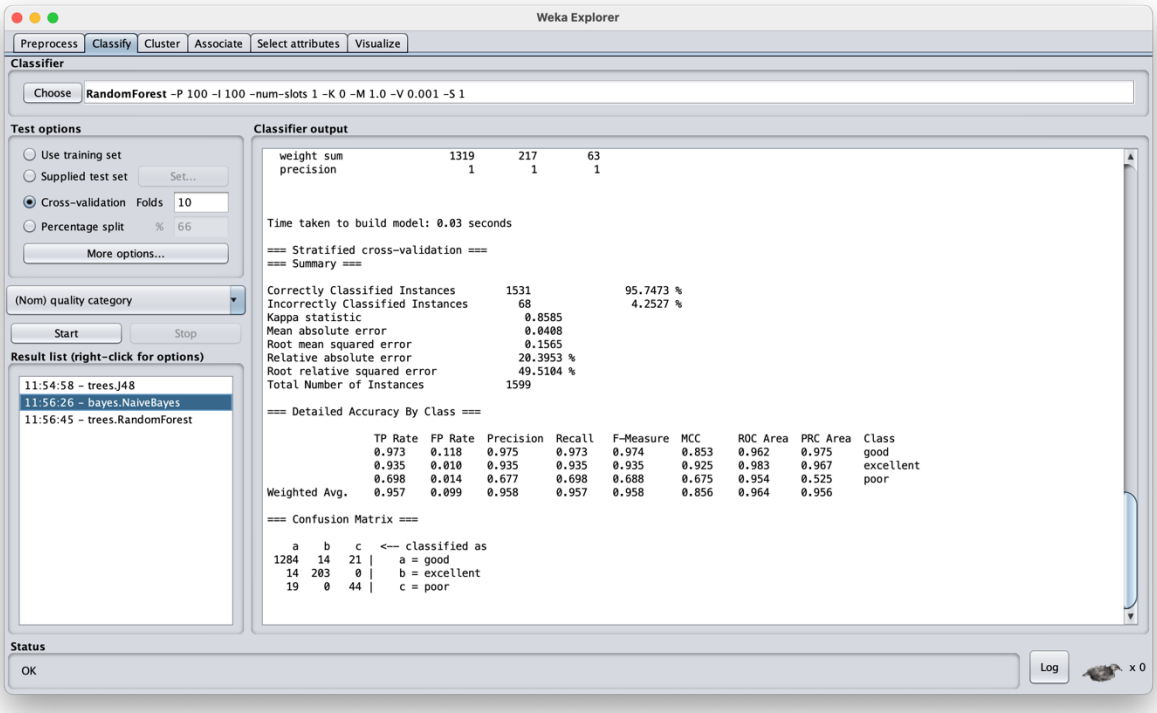
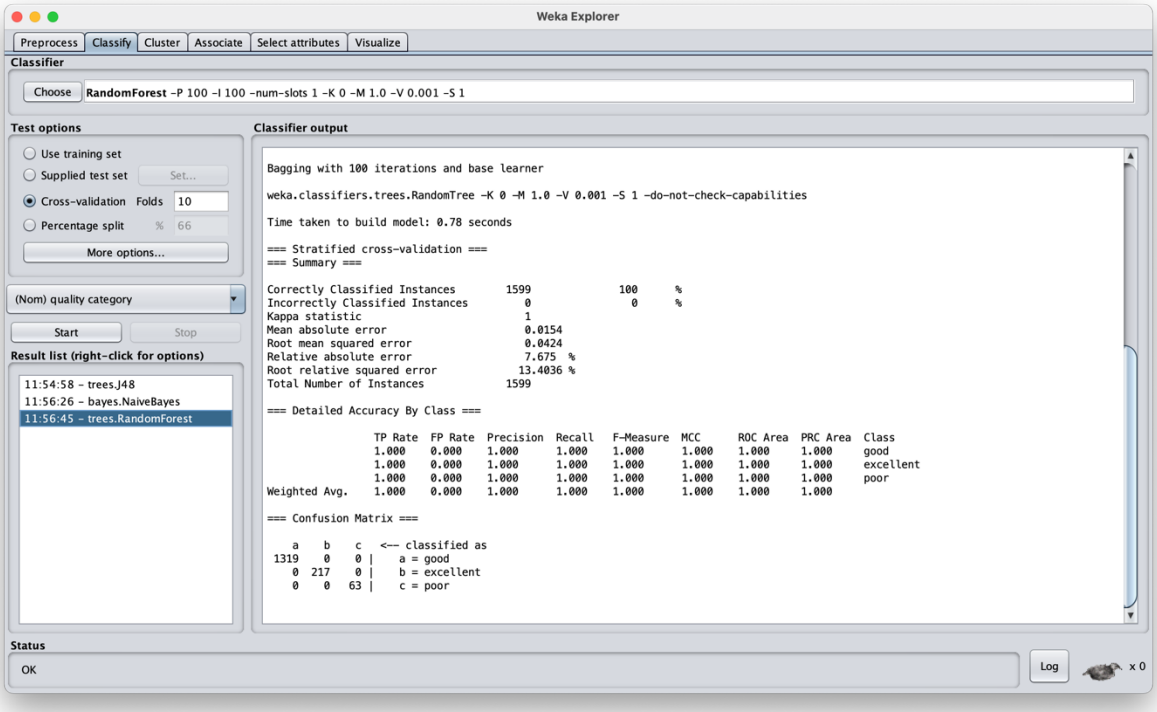
J48 TREE



NAÏVE BAYES



RANDOM FOREST



1. What has been done in the past week?
    a. The first thing I did was create a categorical attribute on the dataset using the numeric quality inputs. I used an IF statement in Excel to split the numerical quality values into three categories: *poor*, *good*, and *excellent*. Then, I imported the new dataset into Weka, and applied classification to the data using the three different classification methods.
2. You worked individually or together?
    a. We primarily worked individually, using our group chat to communicate and break up tasks.
3. Do you have any intermediate results to show?
    a. Using the Visualizing tab, I can see that the “excellent” wines tend to have a lower volatile acidity level, whereas lower quality wines tend to have higher values for volatile acidity. I can also see that “excellent” wines tend to have less sulphates than lower quality wines. Also, low quality wines tend not to have an alcohol level above 12%.
4. What are the challenges you faced in this activity?
    a. Separating wine quality into categories was a little bit of a challenge. I’m sure there is a way to do it in Weka, but I couldn’t figure out how. In any case, it was easy enough to do using Excel.
5. What do you expect to do in the next week?
    a. Next week, I imagine we’ll be looking at ways to better visualize these data.