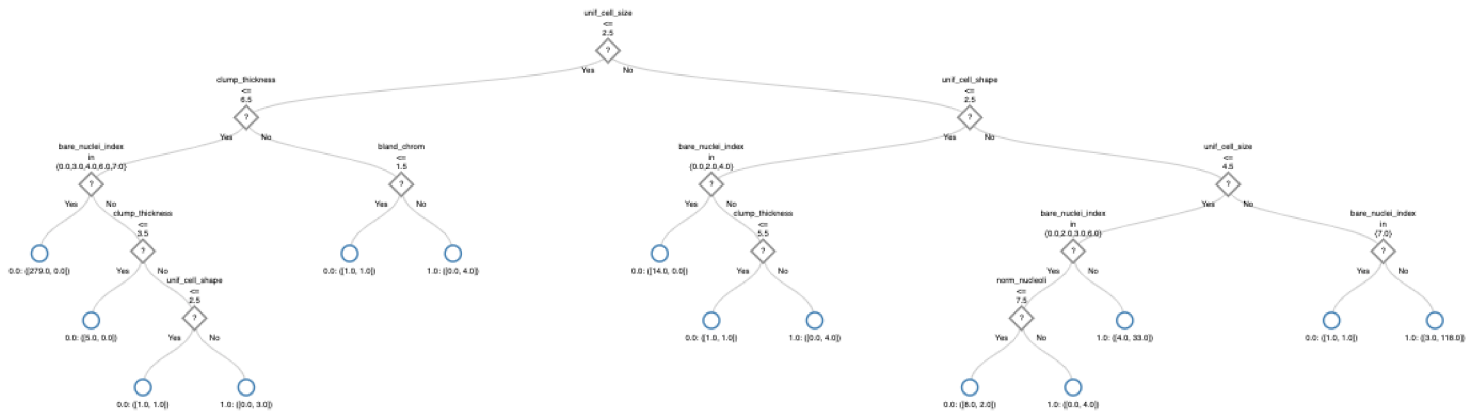


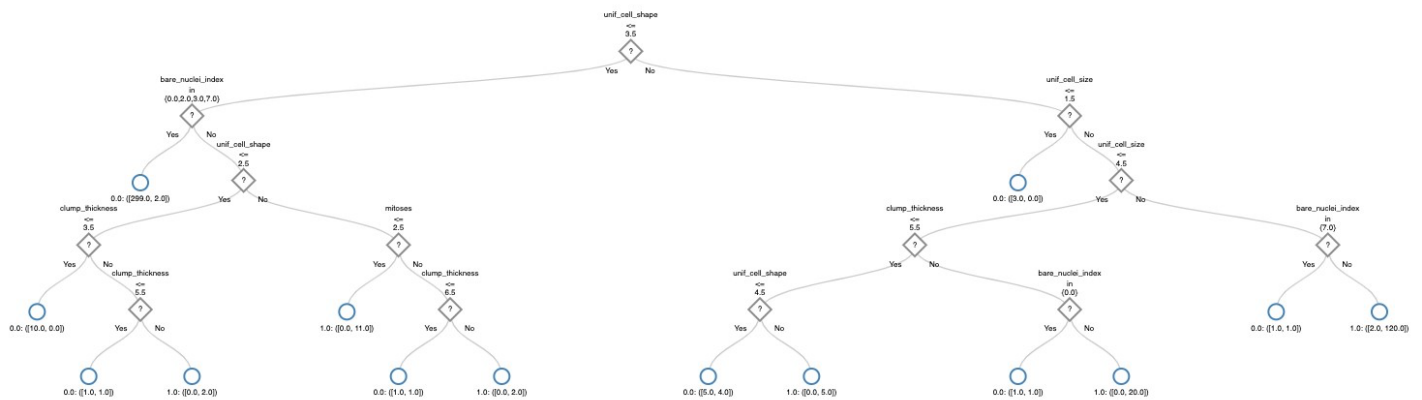
Seed 1: 3457 f1 score:

0.9714285714285714



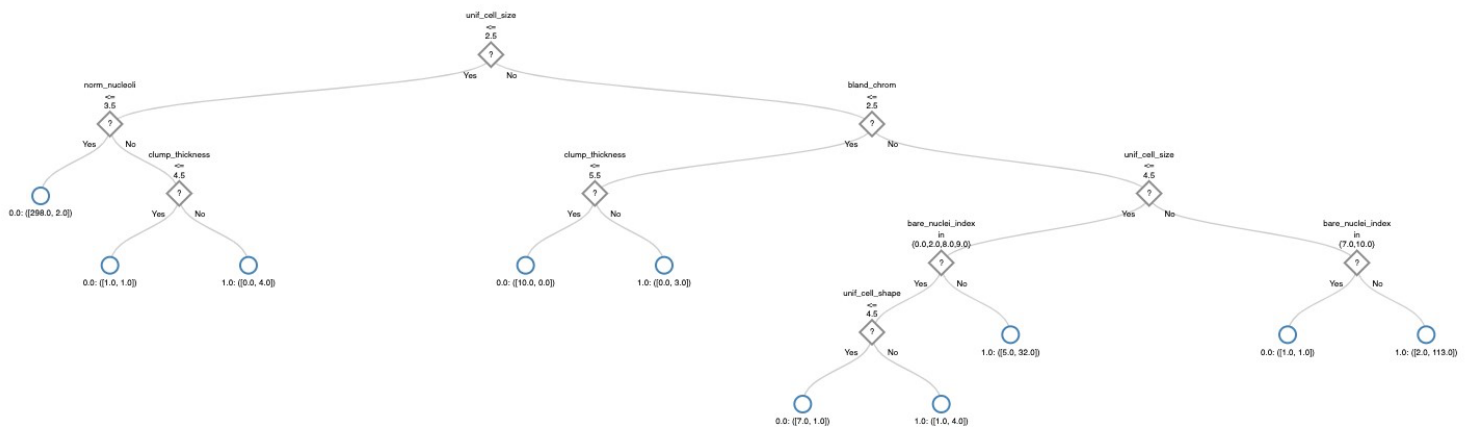
Seed 2: 1004 f1 score:

0.946689395348579



Seed 3: 6731 f1 score:

0.9388895026579518



### f1 performance:

All of the models performed well under all seeds with slight variation. The first seed I ran (3457) performed the fastest, which tells us the weighted average of precision and recall in the decision tree taking into account false negatives and false positives. In this case the score is 0.971428. The second and third seeds, 1004 and 6731 respectively performed similarly, only 0.008 difference. These scores are lower than the first seed at 0.946689 and 0.938889 which also show the model is performing well, just not quite as good as the first seed.

### Key Similarities:

The first and third seed have the same unit cell size (2.5) this means the distance apart is the same. Compared to the second seed (3.5) this means it is not as close. Both trees for seed 1 and seed 3 are heavier on the right side in addition to having the same unit cell size.

Additionally, seed 1 and seed 2 have significantly more branches than seed 3, which explains why seed 3 was the lowest weighted average of precision and recall.