Links

NYPD

Part 1:

Game: NA

Questions: <https://www.stat2games.sites.grinnell.edu/data/accounts/NYPDLab/NYPDLab1.php>

App: <https://shiny.grinnell.edu/NYPD_BarCharts/>

Part 2:

Game: NA

Questions: <https://www.stat2games.sites.grinnell.edu/data/accounts/NYPDLab/NYPDLab2.php>

App: <https://shiny.grinnell.edu/NYPD_BarCharts/>

Part 3:

Game: NA

Questions: <https://www.stat2games.sites.grinnell.edu/data/accounts/NYPDLab/NYPDLab3.php>

App: <https://shiny.grinnell.edu/NYPD_Maps_new/>

Greenhouse

Part 1

Game:

<https://www.stat2games.sites.grinnell.edu/games/greenhouse.html>

Questions:

<https://grinnell.co1.qualtrics.com/jfe/form/SV_8dze3BEVntHOWCG>

App:

<https://shiny.grinnell.edu/dataspace/greenhouse1/>

Part 2

Game: NA

Questions: <https://grinnell.co1.qualtrics.com/jfe/form/SV_cAWURs8sOEKePKC>

App: <https://shiny.grinnell.edu/Greenhouse_Models/>

Part 3

Game:

Questions: <https://grinnell.co1.qualtrics.com/jfe/form/SV_d6YSqtgFKEQJT1k>

App: <https://shiny.grinnell.edu/Greenhouse_Models/>

Racer

Part 1

Game: <https://www.stat2games.sites.grinnell.edu/games/racerlite.html>

Questions: <https://grinnell.co1.qualtrics.com/jfe/form/SV_2aYFZ7UHfh7dzCu>

App: <https://shiny.grinnell.edu/dataspace/Racer1/>

Part 2

Game: <https://www.stat2games.sites.grinnell.edu/games/racerlite.html>

Questions: <https://grinnell.co1.qualtrics.com/jfe/form/SV_a8XjFgLGCrcV0F0>

App: <https://shiny.grinnell.edu/RacerTTests/>

Statistically Grounded

Part 1

Game: <https://www.stat2games.sites.grinnell.edu/games/statisticallyGrounded.html>

Questions: (Professor Kuiper Insert)

App: <https://adamesolar.shinyapps.io/PowerCoffee/>

Part 2

Game: <https://www.stat2games.sites.grinnell.edu/games/statisticallyGrounded.html>

Questions: (Professor Kuiper Insert)

App: <https://adamesolar.shinyapps.io/PowerInsignificant/>

<https://adamesolar.shinyapps.io/PowerVarying/>

Covid

Game: NA

Questions: <https://grinnell.co1.qualtrics.com/jfe/form/SV_6hBRydbGkHKazpY>

App: <https://shiny.grinnell.edu/dataspace/covid1>

Recidivism

Questions to ask here.

Video questions:

1. If the mixture of a leaf was 6 yes’s and 4 no’s, what would be its Gini Impurity?
2. 0
3. 0.2
4. 0.32
5. **0.48**
6. What is called when a statistical model incorrectly predicts someone to recidivate when they actually did not?
7. True Positive
8. True Negative
9. **False Positive**
10. False Negative
11. Why is the term “weighted” used when calculating the average node impurity?
12. comparison being used in the node.
13. **Because the leaves don’t contain the same number of observations.**
14. Because trees have weight to them.

App questions:

1. Using the default settings, what is the overall accuracy?
2. 55.84%
3. 60.32%
4. **67.39%**
5. 68.23%

Now change See accuracy across… to Race:

1. How many false Positives are there for African-Americans
2. **678**
3. 1484
4. 313
5. 665

Now add the variable totalprison

1. What is the overall accuracy now?
   1. 68.72%
   2. **65.79%**
   3. 70.34%
   4. 72.86%