**Pediatric Obesity & Cardiovascular Disease NSCH Study Meeting Notes**

Pre-Meeting Notes:

Bootstrap aggregation: This is a great method for reducing the variance of an estimating prediction function (machine learning function.) It is especially applicable for tree models.

Random forests: These are a modification on the boosting and aggregation method, wherein a large collection of de-correlated trees (predictive models) are averaged together to robustly train.

* Bagging: Aims to average many noisy predictive models. Trees are an ideal candidate for this since they can capture many complex relationships.
* \*\*How random forest approach works is that a bootstrap sample is obtained, a random forest tree model is generated, then at a new point (x), a regression is made and then fit to the random forest model to classify.

Rationale for averaging trees: Since trees are notoriously noisy, they benefit greatly from the averaging. Moreover, since each tree generated in bagging is identically distributed (i.d.), the expectation of an average of B such trees is the same as the expectation for any one of them.

* The average variance should be 1/mean\*(SD\*SD).

Imagen que contiene objeto, reloj

Descripción generada automáticamenteGoals of random tree method: “The idea in random forests (Algorithm 15.1) is to improve the variance reduction of bagging by reducing the correlation between the trees, without increasing the variance too much.”

* In bagging, the variance of the average can be seen to the right, whereby when the average increase (B), it eventually just becomes a variable function of p and standard deviation.

Imagen de la pantalla de un celular con letras

Descripción generada automáticamente con confianza bajaRandom-tree methodology: After the random tree model is created, data are then bootstrapped to create a more robust sample. Before each split, select m ≤ p of the input variables at random as candidates for splitting. Typically, values for m are sqrt(p).

* Random forest regression predictor: This equation is seen on the left, where Ob characterizes the bth random forest tree given split variables, cutpoints at each node, and terminal-node values?
* \*\*Thus, reducing m reduces the variance in the average.
* The p-value is typically kept at 0.05 or lower, and the standard deviation of the entire model should be no different than one individual tree (per its properties.)

Random forest performance: A random forest classifier achieves 4.88% misclassification error on the spam test data, which compares well with all other methods.

Gráfico, Gráfico de líneas

Descripción generada automáticamenteParameters on network performance: Random forest algorithms seem to have roughly equal performance with gradient boosting. The greater the m value, the smaller the absolute error, although the greater the variance of the average.

* There appears to be a plateau point where performance generally stalls. For this model, it seems to be very early on, like 100-200 trees.
* This isn’t always the case that smaller m is better.
* A greater number of trees doesn’t improve RF model performance, whereas it does for gradient boosting which is taxing.

Out of bag (OOB) samples: This is where we construct a random forest predictor equation based on the trees that did not appear in the bootstrapped sample. The OOB error estimate is identical to N-fold cross-validation.

* Once OOB misclassification error stabilizes or plateaus, training can stop.

Gráfico, Gráfico de dispersión

Descripción generada automáticamenteProximity plots: This is an outcome measure produced by the random forest algorithm, which is an N x N matrix, which maps the OOB observations that share a terminal node (closer proximity.) It basically shows which characteristics allow the model to converge on a classification.

* Uses multidimensional scaling.
* Pairs of points that are close but are not part of the same classification group often do not share terminal nodes, but not always.

Variable performance: The random forest algorithm will also compute the relative importance of each variable (similar to regression analysis) by using the OOB error.

Overfitting: Too small of m and too many predictor variables will threaten the accuracy of the model. On the other hand, too dense of trees will also increase the variability of an RF model.

Texto

Descripción generada automáticamenteMeasuring network performance: As data average 🡪 infinity, we are still continually dependent on the training data Z. As tree size (node size) increases, error decreases.

* Variation in network performance is based on p (sampling correlation between any and all pairs of trees used for averaging) multiplied by sigma squared (sampling variance of any randomly drawn tree.)
  + Correlation between trees slightly increases as m increases. Variability increases as m decreases.

Texto

Descripción generada automáticamenteBias: The bias of a random forest is the same as the bias of any of the individual sampled trees T(x;Θ(Z)).

* Recall that bias is true parameter – observed statistic.
* As m decreases, bias increases, unsurprisingly.

Mechanism behind random tree algorithm: The tree-growing algorithm finds an “optimal” path to that observation, choosing the most informative predictors from those at its disposal. The averaging process assigns weights to these training responses, which ultimately vote for the prediction.

* Very similar to k-means clustering.

randomForest R notes: [randomForest: Breiman and Cutler's Random Forests for Classification and Regression (r-project.org)](https://cran.r-project.org/web/packages/randomForest/randomForest.pdf)

Installing randomForest: The package is simply called “randomForest.” Install as such.

Preparing data: If the data are organized variable-per-column, it needs to be converted into long format. This can be done by str(dataframe), which will convert each variable to its own row, with factors of each variable described therein.

* Continuous variables need to be turned into factors (either by as.factor() or computing threshold cutoffs for the metabolic and biological markers.)

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamenteTraining and testing datasets: In the example to the left, a 70:30 training:validation dataset is sought. One randomly samples a row from the data frame without replacement. The 70% is specified by 0.7\*nrow (70% of rows.)

* Interfaz de usuario gráfica, Texto

  Descripción generada automáticamenteset.seed(n) allows one to replicate the partitioning, which is imperative for consistency in our statistical analysis.

\*\*Code to the right is how one implements a random forest model.

mtry: This is the number of inputted variables into the random forest model, which can be set before the importance command.

* It will spit out type of random forest, number of trees, m value, OOB error, etc.

Tabla

Descripción generada automáticamente con confianza bajaTesting model efficacy: Calling the predict(modelname, ValidDataset, type = “class”) and the table(predValid, ValidSet$classvar) allows one to see how well the random forest model is at predicting an outcome variable compared to what it actually is.

* Prediction on the train dataset will always be 100%.

Texto, Carta, Correo electrónico

Descripción generada automáticamenteimportance(dataset): Shows the relevant importance of each inputted variable on the model’s accuracy.

Testing m values: A for-loop can be used to test different m values to determine the optimal number of variables inputted in the model. By plotting the mean predictive accuracy, one can compare different m values.

Combine(): This command allows you to combine different random forest models together, since theory states that their mean accuracies should all be the same as their individual parts. combine(rf1, rf2, rf3) for example.

* getTree(RF object, k=tree to extract, labelVar)
* grow() allows you to add trees to the ensemble.

MDSplot(): This function allows you to plot the proximity matrix of a random forest model. Its parameters include the random forest data frame, by specified factor involved in training, k= number of dimensions for scaling (usually 2), color palette, and other graphing customizations.

na.roughfix(): Allows you to fill in missing variable values (NA) by replacing them with the mode or median of the entire dataset. Should consult with leaders with regard to if this approach is suitable for our study.

outlier(): This command allows you to search for outliers in the random forest model of your data. It uses the proximity matrix to compute this, wherein the output is a “numeric vector containing the outlying measures. The outlying measure of a case is computed as n / sum(squared proximity), normalized by subtracting the median and divided by the MAD, within each class.”

* MAD = mean absolute deviation

Partial plot: This type of plot allows you to visualize the effect(s) of a variable on the classification probability efficacy of the random forest model.

* Called as [partialPlot(x, pred.data, x.var, which.class, w, plot = TRUE, add = FALSE, n.pt = min(length(unique(pred.data[, xname])), 51), rug = TRUE, xlab=deparse(substitute(x.var)), ylab="", main=paste("Partial Dependence on", deparse(substitute(x.var))), ...)]

Texto

Descripción generada automáticamente

Questions:

* What is a node, and how is it determined in the random tree model?
* What is the difference between a node cutpoint and a terminal node value?
* How do we determine the ideal number of trees wherein no further improvement is seen (iterative trials?)
* How is training monitored (i.e. OOB error) in the R platform?
* How similar are proximity plots to t-SNE? They look similar and I want to make sure I am understanding them.
* How will we determine the optimal train:test ratio? For my job, I use 95:5, but that was because that is what was recommended by the developers of the DNN.
* Can a different function be inputted in the na.roughfix() command.

**JUNE 28, 2022 MEETING NOTES:**

* To-do list: Download 2018 and 2019 for screener and topic variables. Remake your GitHub account, download GitKraken. Combine 2018-2019 datasets together (subsetting just to variables you want, combining IDs for two different datasets within) and rbind years—not really any cleaning needed.
* The National Survey of Children’s Health (NSCH) all parent-reported regarding behavior and health. Will be working with an epidemiologist at Children’s Colorado—this individual has defined our study population and done preliminary work on identifying risk factors and associate.
  + Our goal is relating screen usage, PA, adverse mental health variables, etc. It is publicly-available and online. 2018 and 2019 are separate datasets, however, and must be combined. We will retain those behavioral variables, and the epidemiologist will give us additional variables to include like insufficient sleep and socio-demographics.
  + The cleaned dataset should be tried tonight (screener questionnaire, consent form, and how the behavioral health questions were answered matched by ID.)
* Machine learning/random forest notes: Supervised machine learning is that we know the truth in our data (where we know the true classification and we compute how correct the model was; this is the train-test design.) Unsupervised machine learning is not what we are doing, but it is where we do not know the true classification patterns of a given dataset.
  + The random forest trees are generated from the training dataset, which will determine cutoff points for the different inputted variables (the nodes/bifurcations, etc.)
  + We will go with the 80:20 (80% training, 20% testing.)
  + You can choose the number of nodes that you want, but you should be cautious about making too many bifurcations as to not overfit your data (10 vars = only 10 nodes.)
* Put the Rmd file of a nice report for the Results folder. Other code will go in the Code file.

**JUNE 30, 2022 MEETING NOTES:**

* Try random forest on a subset of variables that you have right now. (E.g. 10-20 vars of interest.)
* For random forest, complete entries are needed with no NA.

**QUESTIONS ON RANDOM FOREST IMPLEMENTATION FOR SAM/EMILY:**

* What happens when NA entries are included in the random forest model?
* To note: I found that if I specified by variables of interest beforehand, the complete cases command should follow this format: df <- df[complete.cases(df),]
* “The response has five or fewer unique values. Are you sure you want to do regression?” Why is this warning message appearing? What is wrong with having five or fewer unique values? I fixed it using (options(warn=-1)), but would like to avoid that global setting.
* When I run the randomForest command (to create and run the model) I do not get a confusion matrix. How do I go about fixing that?
* How can I get the table output on [How to implement Random Forests in R | R-bloggers](https://www.r-bloggers.com/2018/01/how-to-implement-random-forests-in-r/) to show in my script? I get an output that is a little confusing to read, and even though some of the categories line up (true positives), it says the mean accuracy is zero for both trials with n=15 and n=21 variables, despite earlier it stating that 58% and 98% of the variance was explained respectively.
  + Should I just use fewer variables to start out? I also checked that all the variables are the same type (e.g. numeric, character, etc.) and can’t really find any discrepancies therein.

**VARIABLE CLUSTERS (JULY 4, 2022 INDEPENDENT MEETING)**

BASE VARIABLE SET:

C\_AGE\_YEARS, C\_HISPANIC\_R, C\_RACE\_R, C\_SEX, BMICLASS, OVERWEIGHT, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A.

**JULY 5, 2022 MEETING**

* Dr. Kaar is using SC\_AGE as the age variable and HHID as the identifier variable to match cases.
* Bucketing ACE variables may be a good idea for a count of ACE given its effects on childhood outcomes.
* I would like to focus on environmental and geospatial factors.
* Make a map of geospatial distribution of obesity on a U.S. state-based level.
* Work through R missing data tutorial.
* Parent self-report on children’s health is a huge limiting factor—heavy bias, in addition to BMI inadequacy. Another red flag is that the reference population was ascertained in the year 2000.

Make a varImportance plot with just the ACE variables on BMICLASS. Throw in race/ethnicity, Hispanic, sex, etc.

**JULY 8, 2022 RANDOM FOREST OUTCOMES:**

RF Model 1 (DO1b\_RF1): 28 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A, ACE1, ACE3, ACE4, ACE5, ACE6, ACE7, ACE8, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q11, K10Q22, K10Q40\_R, K11Q61, K2Q41A, K7Q30.

* Imagen que contiene Diagrama

  Descripción generada automáticamente
* OOB estimate of error rate: 7.1%; highest class error (0.279) for 5th-85th percentile BMI classification, mtry=5.
* Predictive accuracy on TrainSet: 99.61%, on TestSet: 93.56%.

RF Model 2 (DO1b\_RF2): 33 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A, ACE1, ACE3, ACE4, ACE5, ACE6, ACE7, ACE8, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q11, K10Q22, K10Q40\_R, K11Q61, K2Q41A, K7Q30. \*mtry=10, ntree=500 (increased from 6 and unchanged respectively.)

* Imagen que contiene Diagrama

  Descripción generada automáticamente
* OOB estimate of error rate: 25%; highest class error (1.00) for 5th-85th percentile and >85th percentile BMI classification, mtry=10.
* Predictive accuracy on TrainSet: 100%, on TestSet: 74.40%.

RF Model 3 (DO1b\_RF3): 33 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A, ACE1, ACE3, ACE4, ACE5, ACE6, ACE7, ACE8, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q11, K10Q22, K10Q40\_R, K11Q61, K2Q41A, K7Q30. \*mtry=6, ntree=1000 (decreased from 10 and increased from 500 respectively.)

* Imagen que contiene Diagrama

  Descripción generada automáticamente
* OOB estimate of error rate: 24.77%; highest class error (1.00) for 5th-85th percentile and >85th percentile BMI classification, mtry=10.
* Predictive accuracy on TrainSet: 100%, on TestSet: 74.52%.

RF Model 4 (DO1b\_RF4): 33 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A, ACE1, ACE3, ACE4, ACE5, ACE6, ACE7, ACE8, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q11, K10Q22, K10Q40\_R, K11Q61, K2Q41A, K7Q30. \*mtry=2, ntree=500 (decreased from 6 and decreased from 1000 respectively.)

* Imagen que contiene Diagrama

  Descripción generada automáticamente
* OOB estimate of error rate: 24.77%; highest class error (1.00) for 5th-85th percentile and >85th percentile BMI classification, mtry=10.
* Predictive accuracy on TrainSet: 85.90%, on TestSet: 74.17%.

RF Model 5 (DO1b\_RF5): 28 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, K2Q32A, K2Q33A, ACE1, ACE3, ACE4, ACE6, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q11, K10Q22, K10Q40\_R, K7Q30. \*mtry=5, ntree=500.

* Diagrama, Esquemático

  Descripción generada automáticamente
* OOB estimate of error rate: 5.76%; highest class error (0.237) for 5th-85th percentile BMI classification, mtry=5.
* Predictive accuracy on TrainSet: 99.85%, on TestSet: 94.19%.

RF Model 6 (DO1b\_RF6): 22 variables, including FIPSST, SC\_AGE\_YEARS, SC\_HISPANIC\_R, SC\_RACE\_R, SC\_SEX, BMICLASS2, PHYSACTIV, SCREENTIME, HOURSLEEP, ACE1, ACE6, ACE9, ACE10, A1\_BORN, A1\_PHYSHEALTH, BIRTHWT, BULLIED\_R, CURRCOV, FPL\_I1, HIGRADE\_TVIS, K10Q22, K10Q40\_R. \*mtry=5, ntree=500.

* Imagen que contiene Gráfico

  Descripción generada automáticamente
* OOB estimate of error rate: 5.72%; highest class error (0.224) for 5th-85th percentile BMI classification, mtry=5.
* Predictive accuracy on TrainSet: 99.84%, on TestSet: 94.65%.

\*NOTES ON MAP: YES IT DOES APPEAR TO TAKE THE LAST ENTRY, SO SHOULD I DO MEAN, MEDIAN, MODE, ETC.?

**CONTINUING ON WITH RANDOM FOREST MODEL 5:** Changing variables types and partial plot production.

Imagen de la pantalla de un celular de un mensaje en letras negras

Descripción generada automáticamente con confianza media

* OOB error rate: 5.98%, ntree=500, mtry=5.
* <5th percentile error rate: 0.02719%
* 5-85th percentile error rate: 23.54%
* >85th percentile error rate: 21.81%
  + A little concerned about how many (402/1843) are being labeled as <5th percentile when they are actually >85th percentile.
* Training accuracy: 99.76%
* Prediction accuracy: 94.83%

Variable Importance Plot:

Gráfico, Gráfico de dispersión

Descripción generada automáticamente

* The variable importance plot indicates that one’s location (FIPSST) is the heaviest determinant of obesity outcomes. We believe that this is adequately categorizing findings by merely state and not ordinal groups of states.
  + Confirmed by reconfiguring to “as.character”
* Physical activity (an ordinal variable) was the second strongest predictor, followed by hours slept per night, screen time, age, sex, race, anxiety, depression, and Hispanic identity. These are at least those in the top 10.

![Diagrama

Descripción generada automáticamente con confianza baja](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFN1bmRlcmxhbmQgQmFrZXIAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFN1bmRlcmxhbmQgQmFrZXIAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Partial Plots: Regarding dependence on eliciting obese outcomes (>85th percentile.)

State/Location:

Gráfico

Descripción generada automáticamente

* States exerting the lowest dependence on such an outcome include Colorado, Hawaii, Kansas, Massachusetts, Montana, Nevada, Utah and Washington. Roughly aligns with trends as reported by the CDC: <https://www.cdc.gov/physicalactivity/data/inactivity-prevalence-maps/index.html>

Age of Child:

Gráfico, Gráfico de líneas

Descripción generada automáticamente

Hispanic Identity:

Forma

Descripción generada automáticamente

* According to this plot, Hispanic identity is associated with a less strong dependence on ameliorating obese outcomes, meaning you are more likely to be obese.

Racial Identity:

Gráfico, Gráfico en cascada

Descripción generada automáticamente

* Generally appears that being white is an influential factor on reducing the risk of being classified in the >85th percentile BMI group, therefore fewer rates of obesity.

Sex:

Forma

Descripción generada automáticamente

* It appears that being male is a greater risk factor for developing obesity in children given the lesser influence on not being categorized as >85th BMI. Could also be due to confounding biological processes like testosterone and protein synthesis rates in teenage boys, implicated in muscle hypertrophy.

Physical Activity

Imagen que contiene Forma

Descripción generada automáticamente

* Greater rates of physical activity appear to strong dissuade being ranked as >85th percentile BMI.

Hours Slept:

Gráfico, Gráfico de barras

Descripción generada automáticamente

* Almost a bell curve shape of approaching the optimal amount of sleep and lowering risk of obesity, whereas too little or too much exacerbates risk.

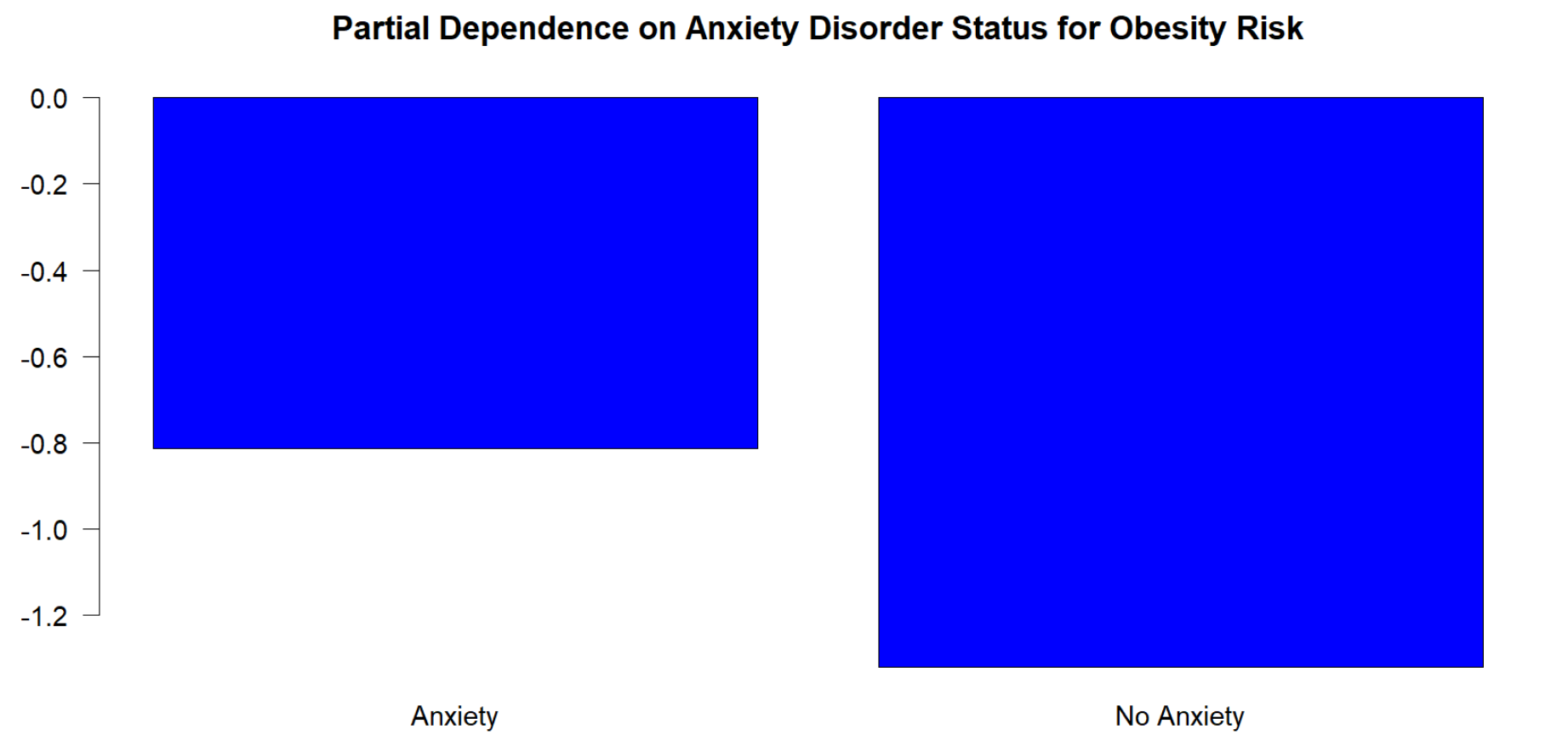
Depression:

Forma

Descripción generada automáticamente con confianza media

* Depressive symptoms appear to be associated with greater risk of developing obesity given lesser weight on preventing >85th percentile BMI classification.

Anxiety:



* More anxiety is associated with a slightly greater risk at not ameliorating >85th percentile BMI classification, which is sensical alongside the depression trends.

Food Insecurity:

Forma

Descripción generada automáticamente con confianza baja

* Food stability (greater availability of food) actually associated with lower rates of obesity, likely propagated by more wealth and access to healthier foods.

Divorce:

Forma

Descripción generada automáticamente

Parental Death:

Forma

Descripción generada automáticamente

Domestic Violence Witnessed:

Forma

Descripción generada automáticamente

Substance Abuse Witnessed:

Forma, Rectángulo, Cuadrado

Descripción generada automáticamente

Racism:

Forma

Descripción generada automáticamente

Foreign-Born Parents:

Forma, Cuadrado

Descripción generada automáticamente

* A myriad of contributing factors to this outcome, such as income level, education level, access to grocery stores, language barriers, etc.

Parent Physical Health:

Imagen que contiene Forma

Descripción generada automáticamente

* Seems to directly influence child’s obesity/BMI outcomes.

Child Birth Weight:

Forma

Descripción generada automáticamente

Bullied Status:

Imagen que contiene Gráfico

Descripción generada automáticamente

Healthcare Coverage:

Forma, Cuadrado

Descripción generada automáticamente

Family-Poverty Ratio:

Imagen que contiene Forma

Descripción generada automáticamente

* More wealthy indicates a lower risk of being classified as obese.

Parental Education Level:

Imagen que contiene Forma

Descripción generada automáticamente

* Greater education levels appear to implicate lower obesity risk.

Neighborhood Walkability:

Forma, Cuadrado

Descripción generada automáticamente

* Important to note many confounding variables/factors with ecological settings.

Neighborhood Dilapidation:

Forma, Cuadrado

Descripción generada automáticamente

Neighborhood Safety:

Imagen que contiene Forma

Descripción generada automáticamente

Sports Involvement:

Forma, Cuadrado

Descripción generada automáticamente

STATES AS CHARACTER VARIABLES (NOT INTEGER):

Imagen de la pantalla de un celular de un mensaje en letras negras

Descripción generada automáticamente con confianza media

* Marginal differences, especially on OOB estimate of error rate and class errors, albeit slightly better performance (-0.15% error.)
* Train accuracy: 99.87%
* Predict accuracy: 94.32%

Gráfico, Gráfico de dispersión

Descripción generada automáticamente

Gráfico

Descripción generada automáticamente

* Marginal changes to the variable importance plot, though more so to the partial dependence plot for FIPSST.