



PLEASE HELP!

Quick, Anonymous
Survey for
FINAL PROJECT

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Goals of our survey

- Estimate the amount of time UGA students study, exercise, work, and relax
- Determine which students at UGA are more likely to take surveys
- Try to build a model to predict grades based on different combinations of variables

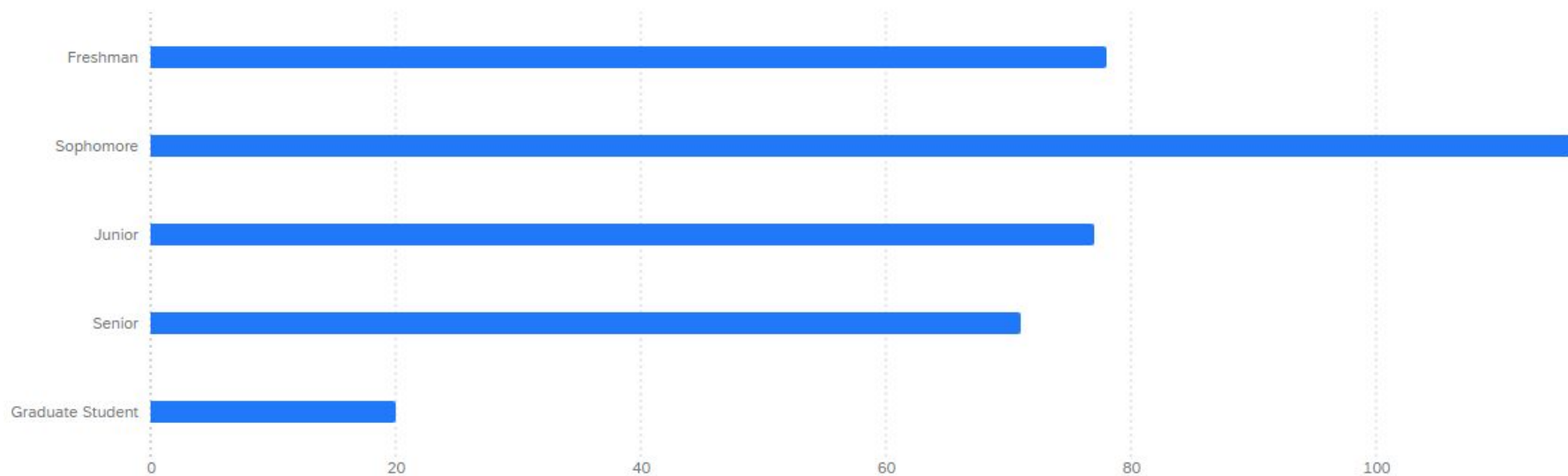
How we collected our data

Good old fashion
leg work



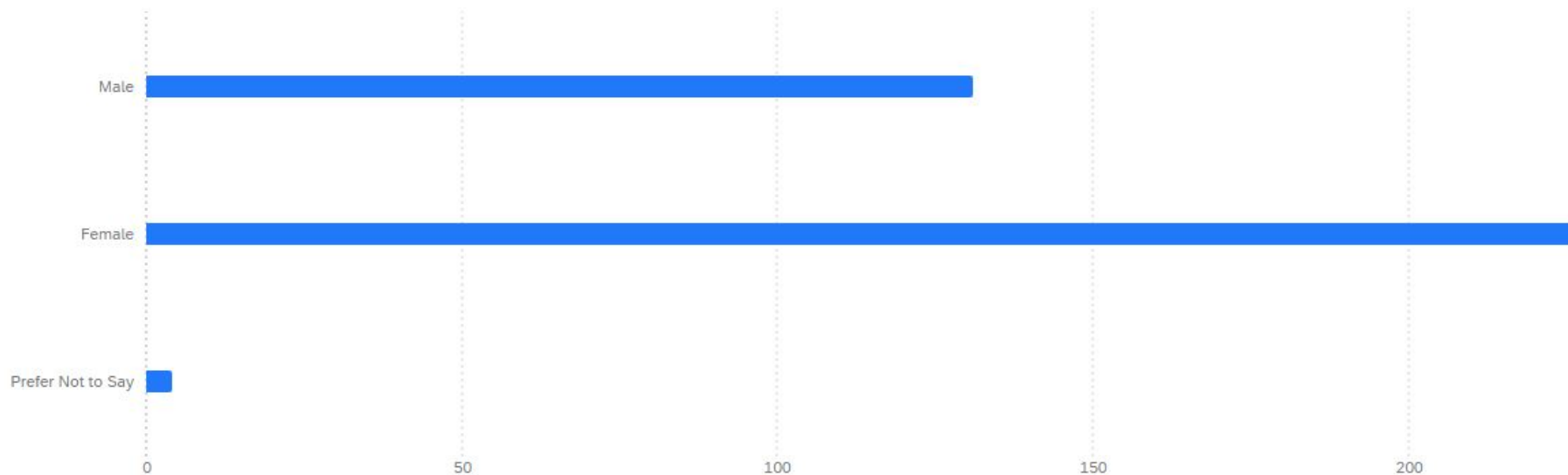
Year

Grade 362 ⓘ



Gender

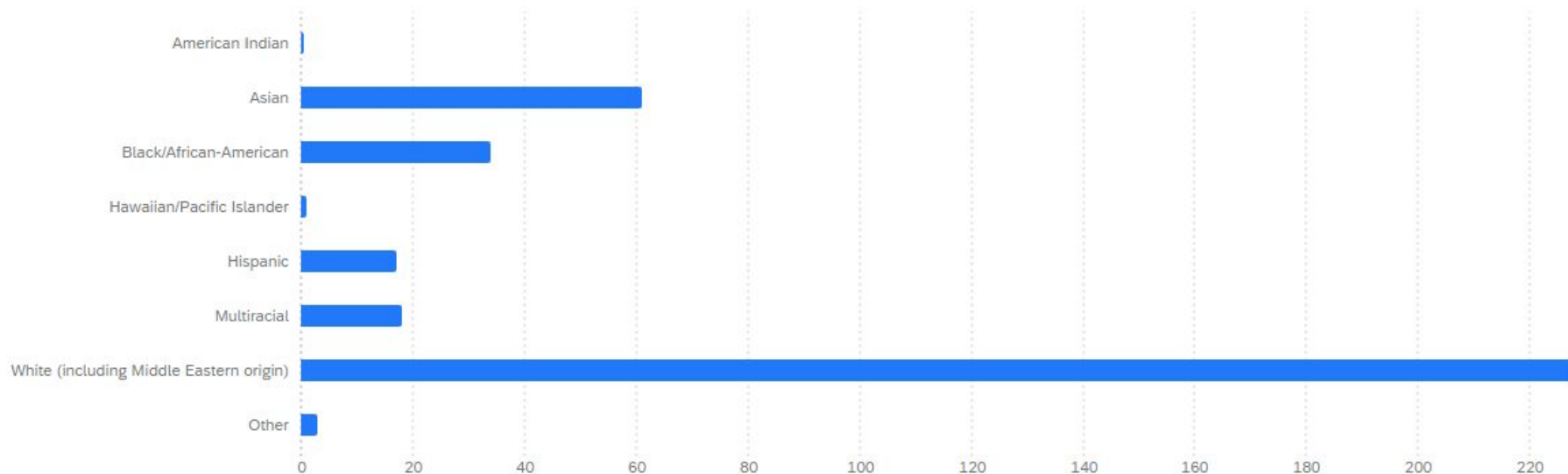
Gender 361 ⓘ



Ethnicity

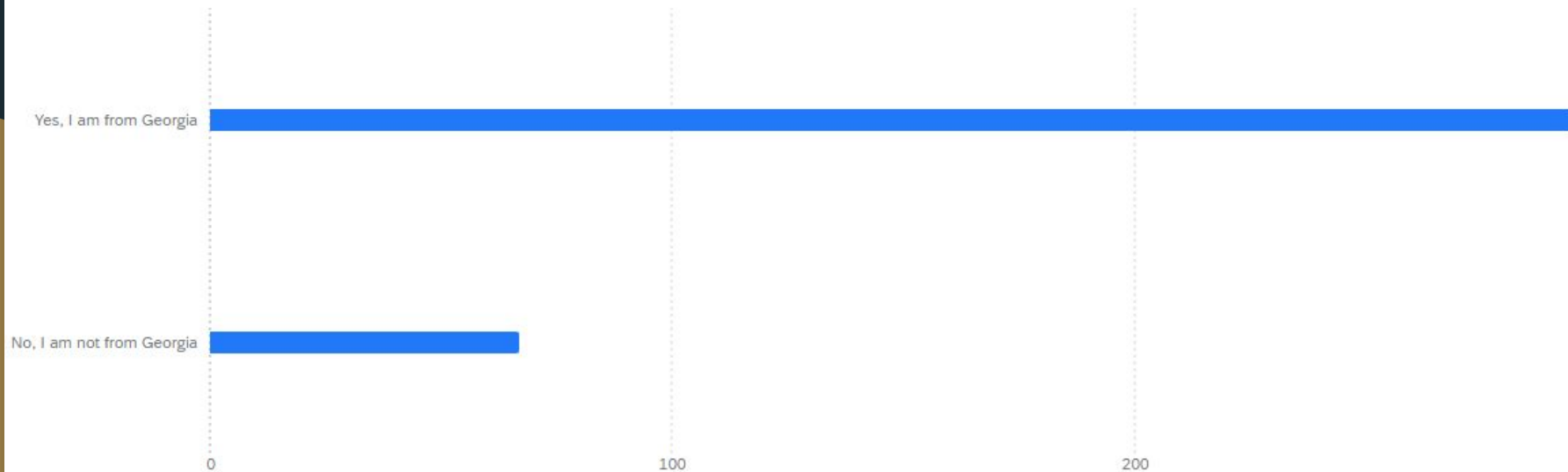
Ethnic Origin 362 ⓘ

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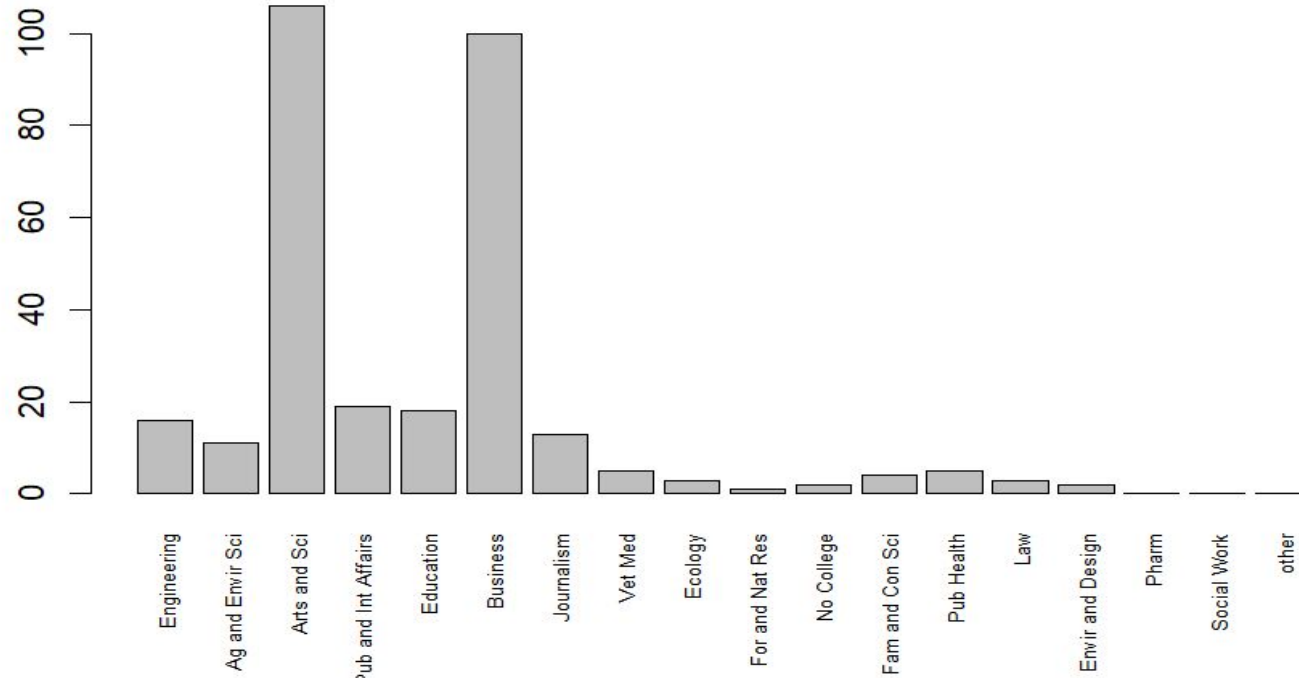
Georgia Resident

Are you a Georgia Resident? 362 ⓘ



College

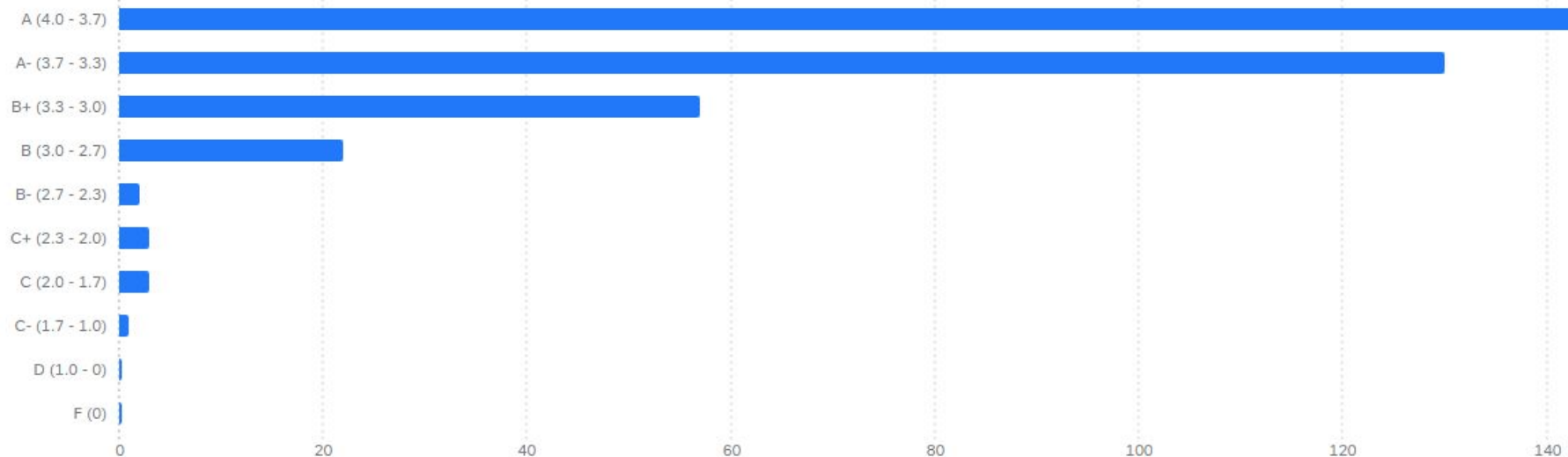
Distribution of Colleges



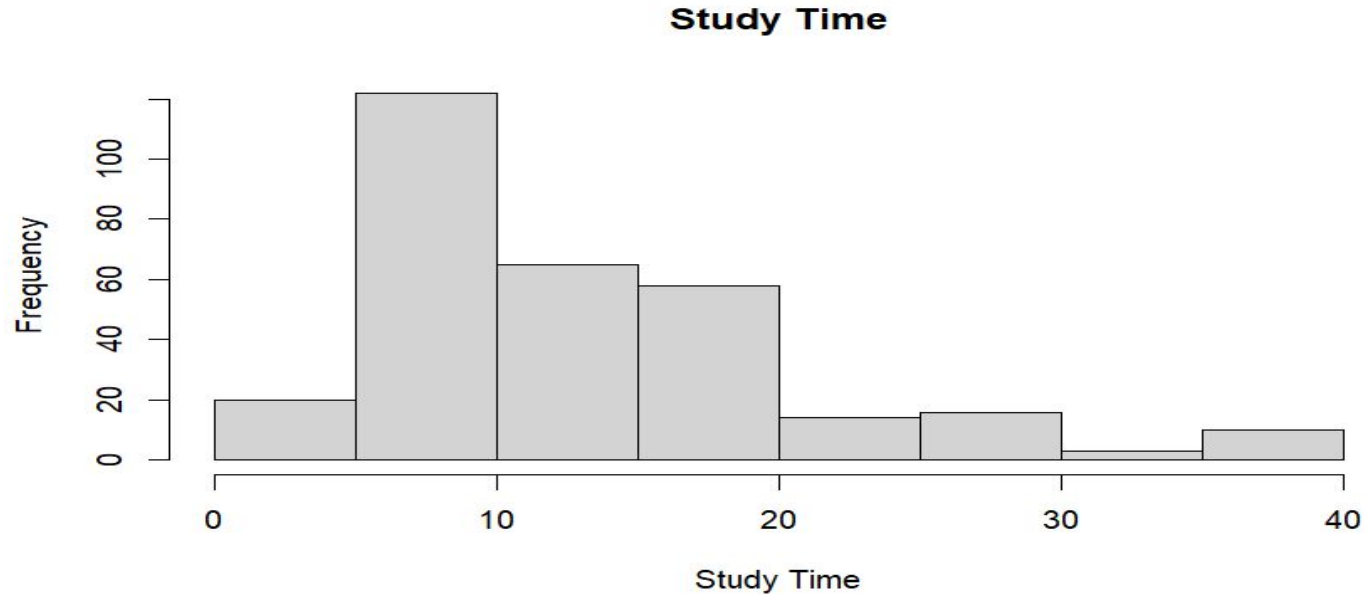
Expected Grade

What is your expected grade this semester? 361 ⓘ

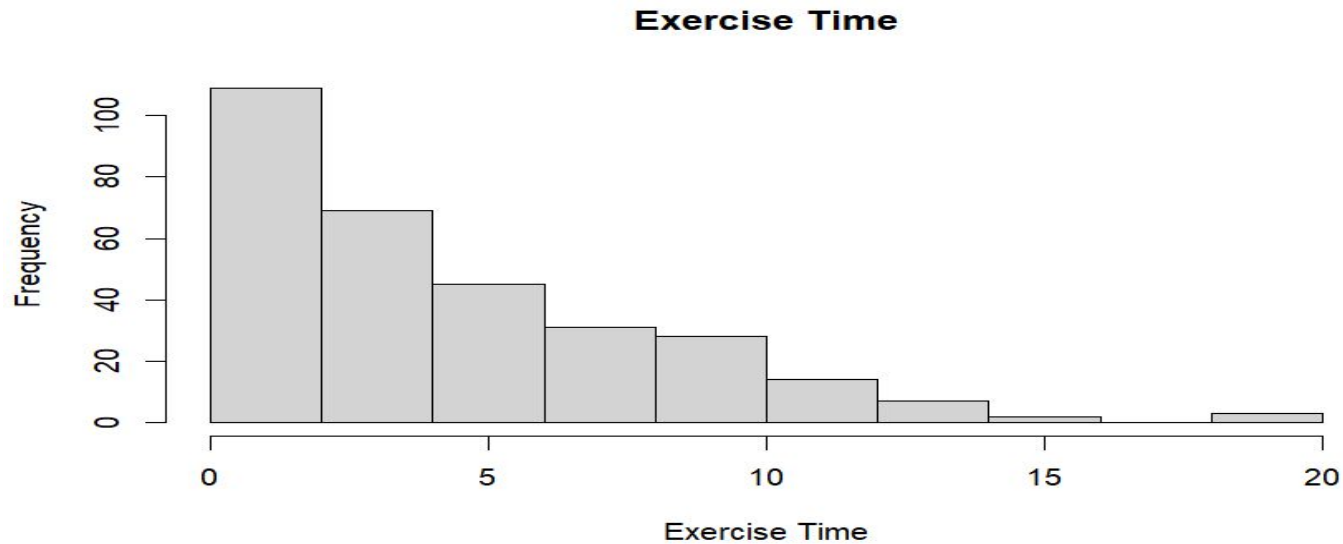
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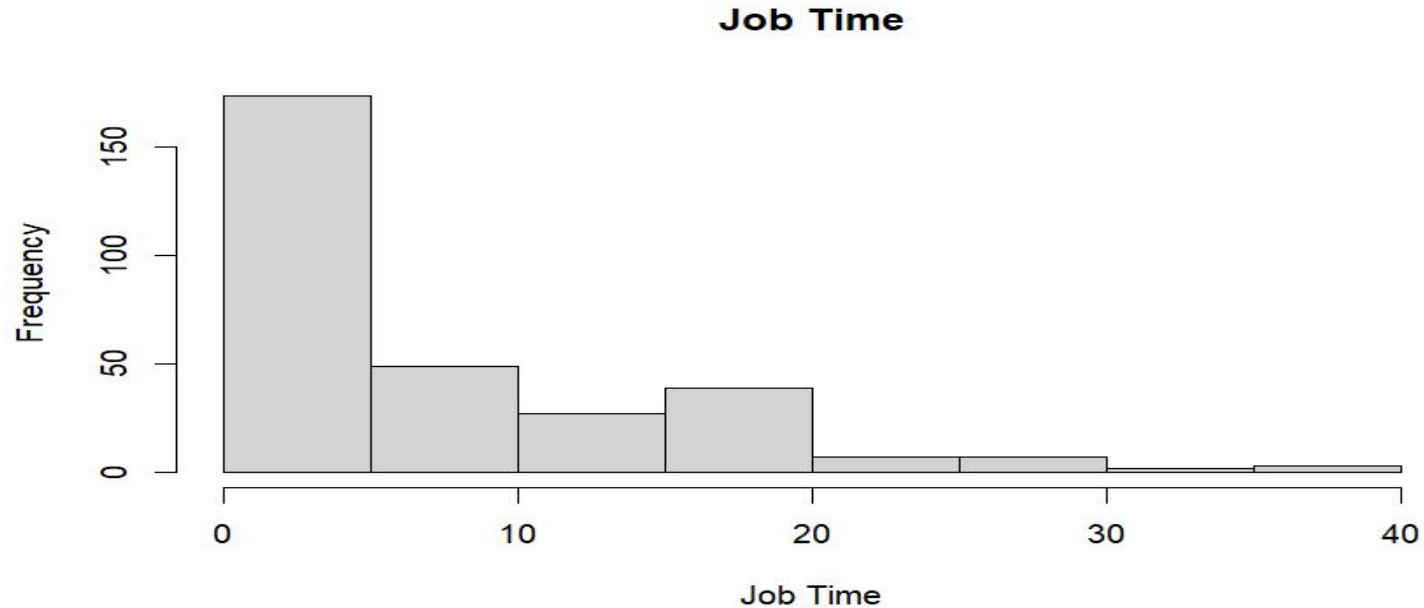
Study Time



Exercise Time



Job Time



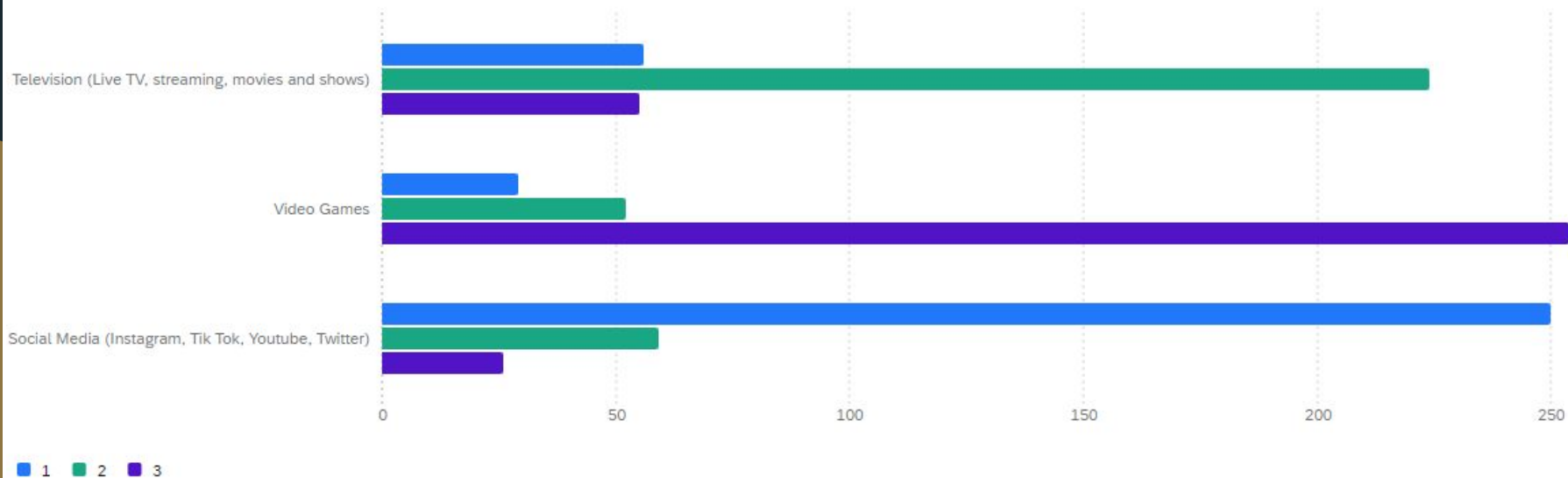
Leisure Time



Entertainment Preferences

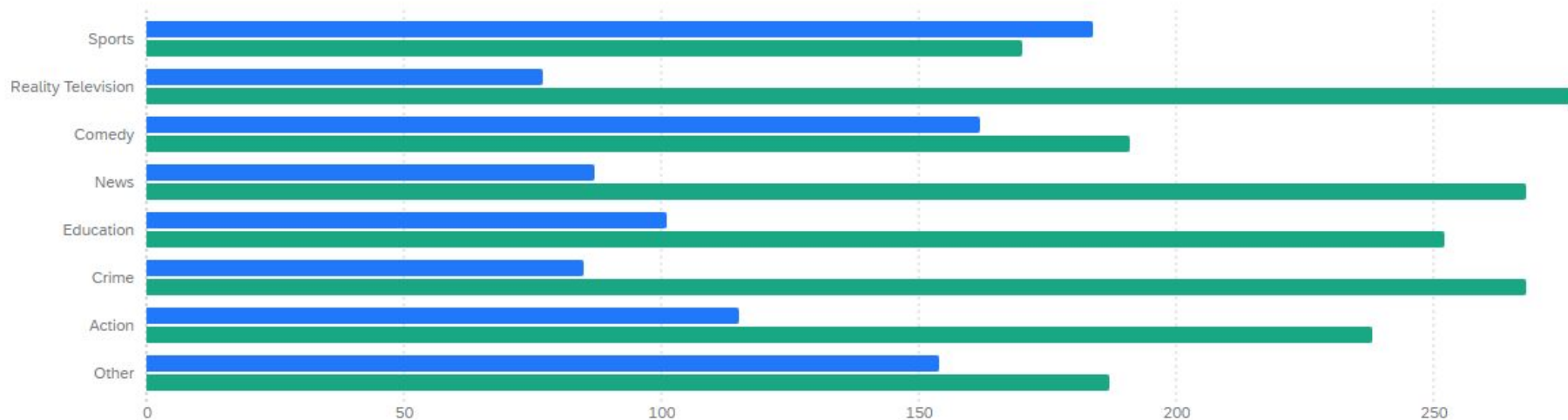
Rank these from Most (1) to Least (3) in terms of how much time you spend per week 335 ⓘ

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Genre Preference

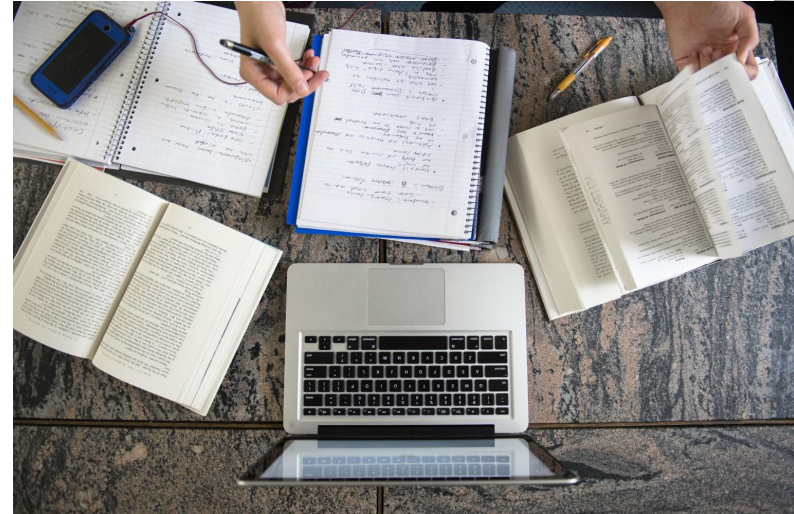
What Genre of entertainment do you typically consume 360 ⓘ



Estimate for Study Time

Full Data Estimate = 13.92 hours

Weighted Estimate = 19.18 hours



Estimate for Job Time

Full Data Estimate = 6.71 hours

Weighted Estimate = 12.45 hours



Estimate for Exercise Time

Full Data Estimate = 5.11 hours

Weighted Estimate = 4.68 hours



Estimate for Leisure Time

Full Data Estimate = 14.07 hours

Weighted Estimate = 13.36 hours

Who is more likely to take a Survey?

UGA Total Population = 40607



Year

Freshman and Sophomores answer survey a lot more than expected.

Juniors answer survey about as expected

Seniors answer survey a little less than expected.

Graduate students answer survey a lot less than expected.

Gender

Male and females answer survey about as expected

Prefer not to say (which we are considering as other genders) answer survey more than expected.

Ethnicity

American Indian, Hispanic, Multiracial, and White
answer survey as expected

Asians, Hawaiian/Pacific Islander, and Other answer
survey more than expected

Blacks/African-American answer survey less than
expected

GA Residency

In-state and Out-of-State student answer survey as expected

College

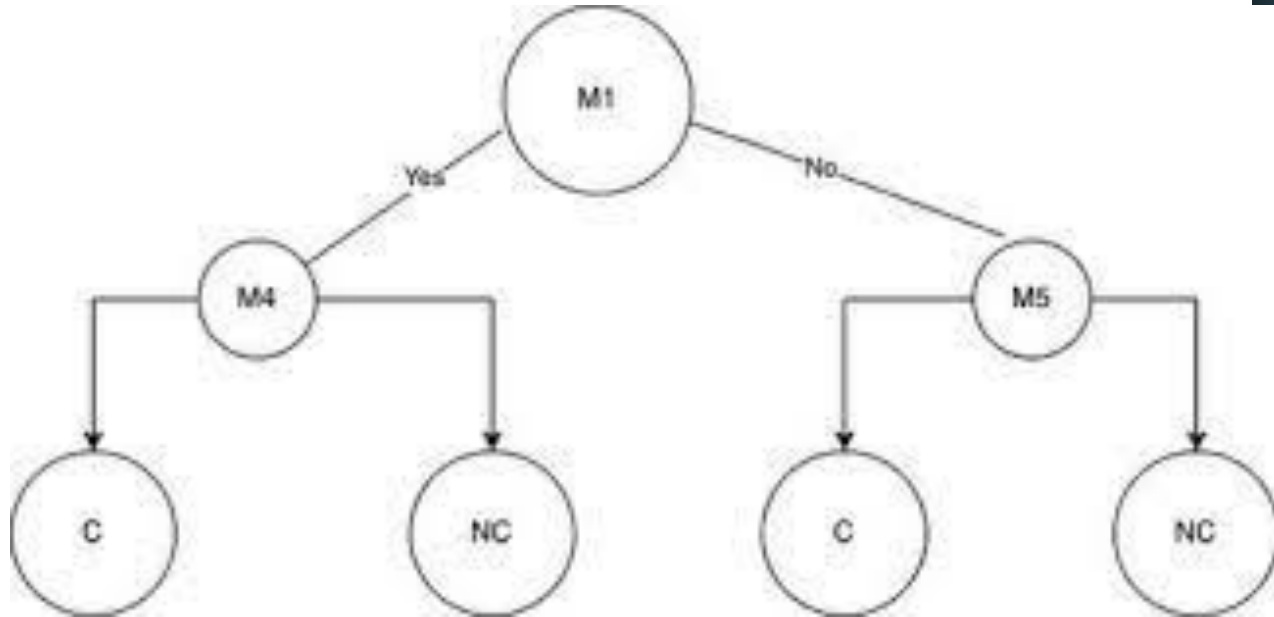
Engineering, Agriculture and Environmental Science, Arts and Sciences, Journalism and Mass Communication, Vet Med, Ecology, Forestry and Natural Resources, No college, Public Health, Law, Environment and Design, and Other answer survey as expected

Public and International Affairs and Business answer survey more than expected

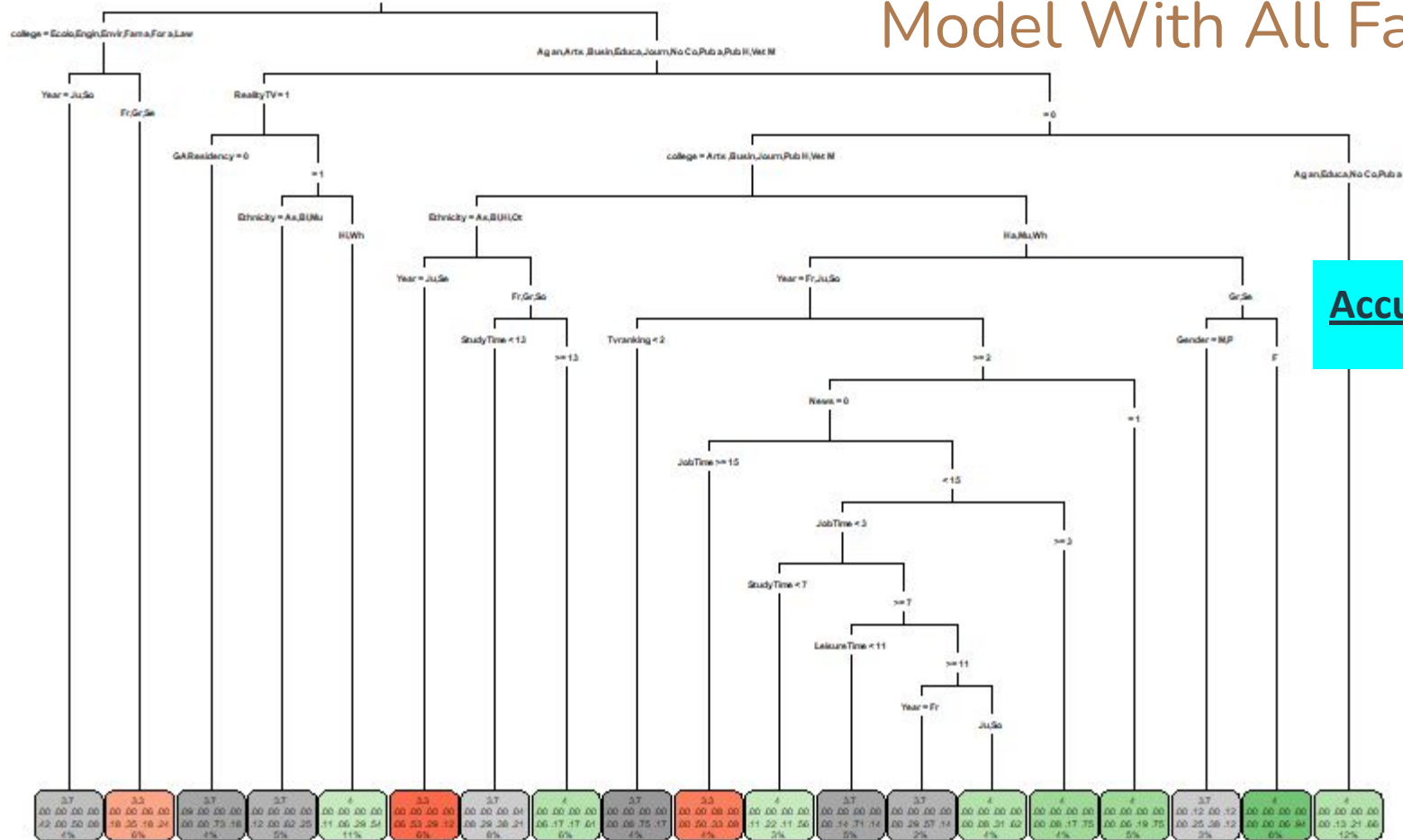
Education, Family and Consumer Science, Pharmacy, and Social Work answer survey less than expected

Decision Tree

- What is a decision tree
- Why we decided to use one
- How to use one

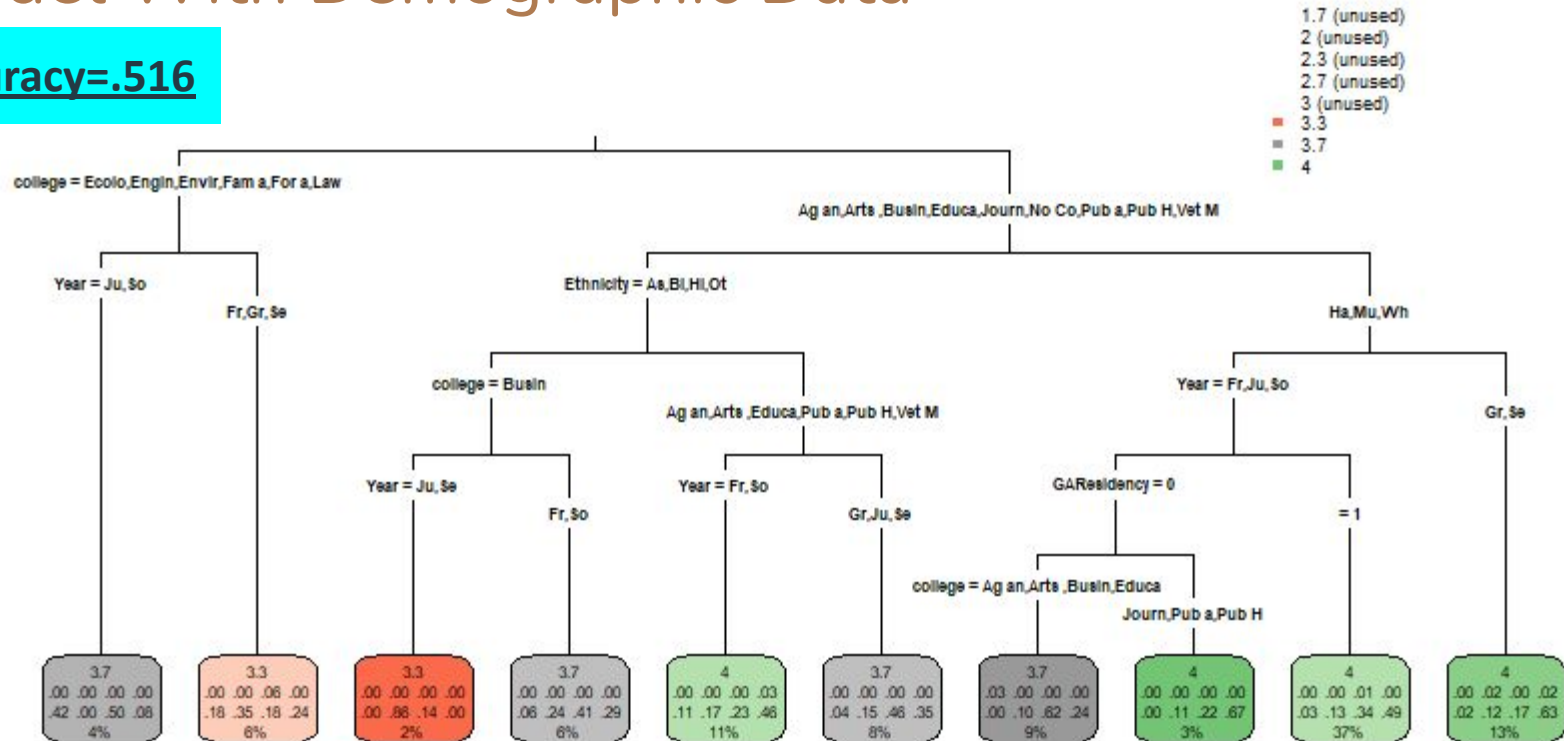


Model With All Factors



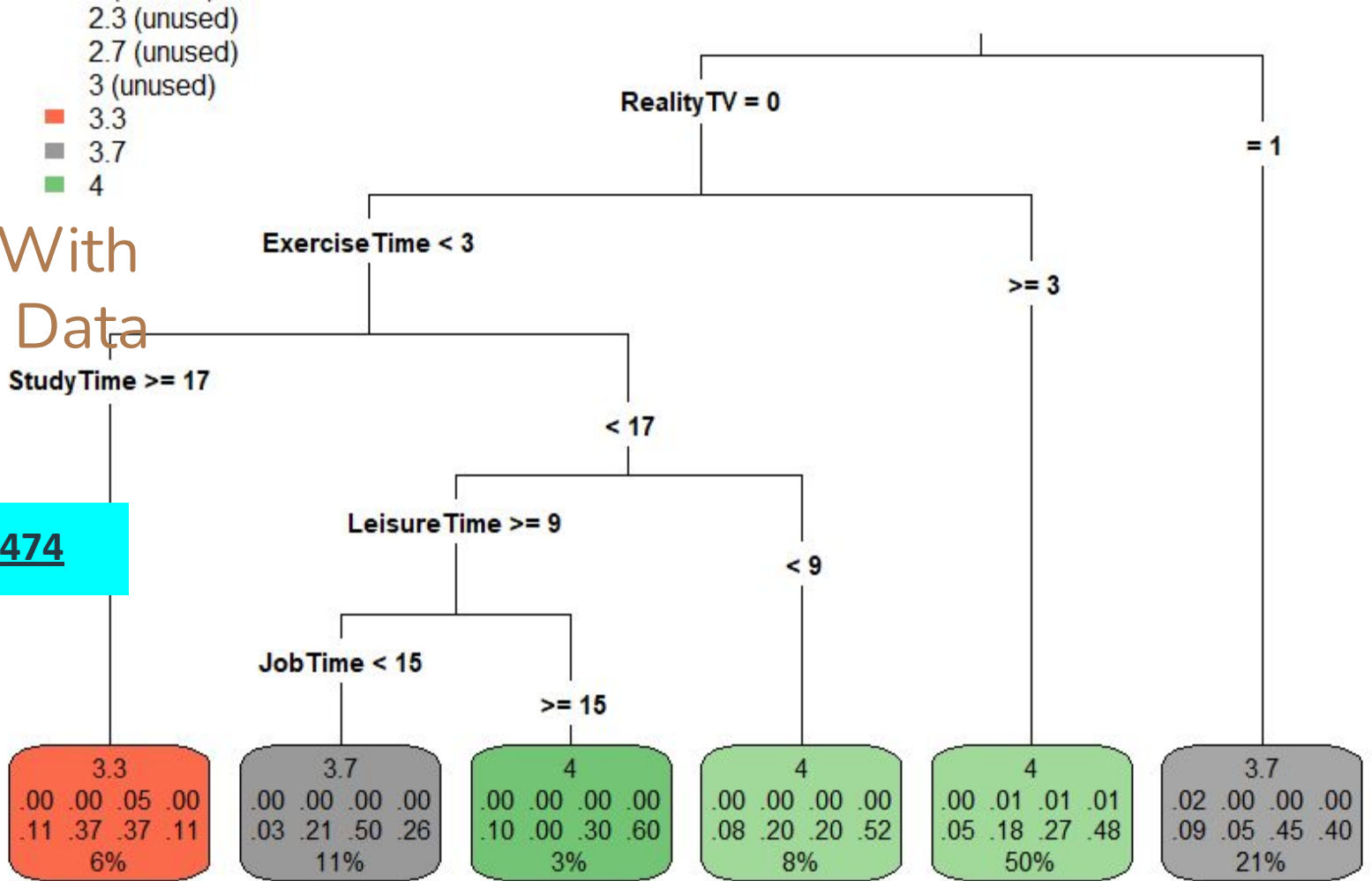
Model With Demographic Data

Accuracy=.516



Model With Survey Data

Accuracy=.474



Possible Biases

- Location
- Time Of Day
- Lying about GPA