R Notebook

Table of Contents

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.6.3

## -- Attaching packages --------------------------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.0 v purrr 0.3.4  
## v tibble 3.0.1 v dplyr 0.8.5  
## v tidyr 1.0.2 v stringr 1.4.0  
## v readr 1.3.1 v forcats 0.5.0

## Warning: package 'ggplot2' was built under R version 3.6.3

## Warning: package 'tibble' was built under R version 3.6.3

## Warning: package 'tidyr' was built under R version 3.6.3

## Warning: package 'purrr' was built under R version 3.6.3

## Warning: package 'dplyr' was built under R version 3.6.3

## Warning: package 'forcats' was built under R version 3.6.3

## -- Conflicts ------------------------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(caret)

## Warning: package 'caret' was built under R version 3.6.3

## Loading required package: lattice

##   
## Attaching package: 'caret'

## The following object is masked from 'package:purrr':  
##   
## lift

library(DataExplorer)

## Warning: package 'DataExplorer' was built under R version 3.6.3

library(fastDummies)

## Warning: package 'fastDummies' was built under R version 3.6.3

library(leaps)

## Warning: package 'leaps' was built under R version 3.6.3

library(cowplot)

## Warning: package 'cowplot' was built under R version 3.6.3

##   
## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## Note: As of version 1.0.0, cowplot does not change the

## default ggplot2 theme anymore. To recover the previous

## behavior, execute:  
## theme\_set(theme\_cowplot())

## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

library(GGally)

## Warning: package 'GGally' was built under R version 3.6.3

## Registered S3 method overwritten by 'GGally':  
## method from   
## +.gg ggplot2

##   
## Attaching package: 'GGally'

## The following object is masked from 'package:dplyr':  
##   
## nasa

### Dataset

Import processed data, which can be found [here] (“<https://github.com/luizmalpele/stats_learning_project/blob/master/data/data.Rmd>”)

#read preprocessed data  
college\_data <- read.csv(file = '../data/college\_data.csv')

View data info

glimpse(college\_data)

## Rows: 2,973  
## Columns: 27  
## $ name <fct> Aaniiih Nakoda College, Abilene Christian...  
## $ state <fct> Montana, Texas, Georgia, Minnesota, Calif...  
## $ state\_code <fct> MT, TX, GA, MN, CA, CO, NY, NY, MI, VA, F...  
## $ type <fct> Public, Private, Public, For Profit, For ...  
## $ degree\_length <fct> 2 Year, 4 Year, 2 Year, 2 Year, 4 Year, 4...  
## $ room\_and\_board <int> NA, 10350, 8474, NA, 16648, 8782, 16030, ...  
## $ in\_state\_tuition <int> 2380, 34850, 4128, 17661, 27810, 9440, 38...  
## $ in\_state\_total <int> 2380, 45200, 12602, 17661, 44458, 18222, ...  
## $ out\_of\_state\_tuition <int> 2380, 34850, 12550, 17661, 27810, 20456, ...  
## $ out\_of\_state\_total <int> 2380, 45200, 21024, 17661, 44458, 29238, ...  
## $ total\_enrollment <int> 291, 4427, 3458, 127, 15212, 3154, 7610, ...  
## $ rank <int> NA, NA, NA, NA, NA, 16, NA, NA, NA, NA, 1...  
## $ early\_career\_pay <int> NA, NA, NA, NA, NA, 44400, NA, NA, NA, NA...  
## $ mid\_career\_pay <int> NA, NA, NA, NA, NA, 81400, NA, NA, NA, NA...  
## $ make\_world\_better\_percent <int> NA, NA, NA, NA, NA, 56, NA, NA, NA, NA, 8...  
## $ stem\_percent <int> NA, NA, NA, NA, NA, 3, NA, NA, NA, NA, 5,...  
## $ women <int> 178, 2562, 1822, 28, 8815, 1728, 5523, 24...  
## $ native\_american <int> 256, 18, 9, 1, 70, 37, 10, 18, 3, 7, NA, ...  
## $ asian <int> 0, 46, 36, 10, 1092, 37, 554, 38, 10, 19,...  
## $ black <int> 0, 387, 407, 14, 999, 191, 857, 126, 153,...  
## $ hispanic <int> 2, 582, 197, 6, 1383, 812, 1007, 135, 80,...  
## $ pacific\_islander <int> 0, 0, 1, 3, 75, 10, 6, 2, 0, 1, NA, 2, 3,...  
## $ white <int> 33, 2959, 2728, 80, 3456, 1776, 4058, 381...  
## $ two\_more\_races <int> 0, 179, 30, 1, 312, 126, 153, 76, 54, 11,...  
## $ unkown <int> 0, 71, 1, 12, 2652, 165, 529, 31, 174, 3,...  
## $ foreign <int> 0, 185, 49, 0, 5173, 0, 436, 9, 1, 0, NA,...  
## $ total\_minority <int> 258, 1212, 680, 35, 3931, 1213, 2587, 395...

Use DataExplorer to automatically create an EDA

#create\_report(college\_data)

EDA etc

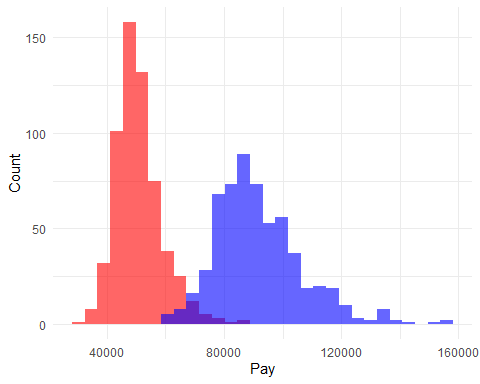
#overlay early pay distribution with middle play distribution  
college\_data %>%   
 ggplot() +  
 geom\_histogram(mapping = aes(x = early\_career\_pay),   
 fill = "red",  
 alpha = 0.6) +  
 geom\_histogram(mapping = aes(x = mid\_career\_pay),   
 fill = "blue",  
 alpha = 0.6) +  
 xlab("Pay") +  
 ylab("Count") +  
 theme\_minimal()

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 2380 rows containing non-finite values (stat\_bin).

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 2380 rows containing non-finite values (stat\_bin).



What types of colleges want to make the world better? (maybe subset grep(Art, creative) and grep(health, nursing) and compare boxplots of ‘make\_world\_better\_percent’)

college\_data %>%   
 filter(!is.na(make\_world\_better\_percent)) %>%   
 select(name, make\_world\_better\_percent) %>%   
 arrange(make\_world\_better\_percent)

## name  
## 1 The King's University  
## 2 Savannah College of Art and Design  
## 3 Bentley University  
## 4 Connecticut College  
## 5 Babson College  
## 6 Centenary College of Louisiana  
## 7 Kansas City Art Institute  
## 8 Lafayette College  
## 9 Maine College of Art  
## 10 Champlain College  
## 11 Cornish College of the Arts  
## 12 Gettysburg College  
## 13 John Carroll University  
## 14 Loyola Marymount University  
## 15 Minneapolis College of Art and Design  
## 16 Sierra Nevada College  
## 17 Bucknell University  
## 18 College for Creative Studies  
## 19 La Salle University  
## 20 Loyola University Maryland  
## 21 Maryland Institute College of Art  
## 22 New College of Florida  
## 23 Saint Michael's College  
## 24 Wabash College  
## 25 Washington and Lee University  
## 26 Coe College  
## 27 Fairfield University  
## 28 Saint Joseph's University  
## 29 University of Chicago  
## 30 University of Mount Union  
## 31 University of Pennsylvania  
## 32 Vermont Technical College  
## 33 Villanova University  
## 34 College of William and Mary  
## 35 Goldey-Beacom College  
## 36 Goucher College  
## 37 James Madison University  
## 38 Northwestern College  
## 39 Stonehill College  
## 40 University of Scranton  
## 41 Ursinus College  
## 42 Walsh College of Accountancy and Business Administration  
## 43 Boston College  
## 44 Boston University  
## 45 Claremont McKenna College  
## 46 DePaul University  
## 47 Eastern Connecticut State University  
## 48 Muhlenberg College  
## 49 University of Delaware  
## 50 Albion College  
## 51 Berry College  
## 52 Case Western Reserve University  
## 53 Emory University  
## 54 Illinois Wesleyan University  
## 55 Kettering University  
## 56 Marymount University  
## 57 Reed College  
## 58 Santa Clara University  
## 59 Stetson University  
## 60 Swarthmore College  
## 61 University of Dayton  
## 62 University of Illinois at Urbana-Champaign  
## 63 University of Wisconsin-Whitewater  
## 64 Western New England University  
## 65 Amherst College  
## 66 Carnegie Mellon University  
## 67 Central Connecticut State University  
## 68 College of Saint Mary  
## 69 Denison University  
## 70 Franklin College  
## 71 Knox College  
## 72 Lehigh University  
## 73 Loyola University Chicago  
## 74 Lynn University  
## 75 North Central College  
## 76 University of Georgia  
## 77 University of Notre Dame  
## 78 University of Puget Sound  
## 79 Western Washington University  
## 80 Wisconsin Lutheran College  
## 81 Bradley University  
## 82 Central Michigan University  
## 83 College of the Holy Cross  
## 84 Dickinson College  
## 85 Indiana Institute of Technology  
## 86 Kennesaw State University  
## 87 Lake Forest College  
## 88 Michigan State University  
## 89 Northeastern University  
## 90 Northern Kentucky University  
## 91 Northwestern University  
## 92 Ohio Wesleyan University  
## 93 Quinnipiac University  
## 94 Rhodes College  
## 95 Sacred Heart University  
## 96 Southern Methodist University  
## 97 Trinity University  
## 98 University of Northern Iowa  
## 99 University of Oregon  
## 100 University of Wisconsin-Eau Claire  
## 101 Xavier University  
## 102 Belmont University  
## 103 Carleton College  
## 104 Central Washington University  
## 105 Clark University  
## 106 Cornell College  
## 107 DePauw University  
## 108 Drexel University  
## 109 Georgia State University  
## 110 Gustavus Adolphus College  
## 111 Harding University  
## 112 Haverford College  
## 113 Illinois Institute of Technology  
## 114 Illinois State University  
## 115 Loyola University New Orleans  
## 116 Michigan Technological University  
## 117 Northern Illinois University  
## 118 Oberlin College  
## 119 Pomona College  
## 120 Simpson College  
## 121 Stephens College  
## 122 Towson University  
## 123 University of Maine at Machias  
## 124 University of Southern California  
## 125 University of Wisconsin-Parkside  
## 126 University of Wisconsin-Stout  
## 127 Western Michigan University  
## 128 Western State Colorado University  
## 129 Williams College  
## 130 Worcester Polytechnic Institute  
## 131 Ball State University  
## 132 Brandeis University  
## 133 Carthage College  
## 134 Colorado College  
## 135 Frostburg State University  
## 136 George Mason University  
## 137 Iowa State University  
## 138 Lake Superior State University  
## 139 Lindenwood University  
## 140 Portland State University  
## 141 Rogers State University  
## 142 Tennessee Technological University  
## 143 Truman State University  
## 144 University of Colorado Boulder  
## 145 University of Connecticut  
## 146 University of Denver  
## 147 University of Dubuque  
## 148 University of Houston-Clear Lake  
## 149 University of Illinois at Chicago  
## 150 University of Iowa  
## 151 University of Kentucky  
## 152 University of Miami  
## 153 University of Richmond  
## 154 University of San Diego  
## 155 University of Wisconsin-Madison  
## 156 Vanderbilt University  
## 157 Virginia Polytechnic Institute and State University  
## 158 Wellesley College  
## 159 Baylor University  
## 160 Carroll University  
## 161 Drake University  
## 162 Florida State University  
## 163 Georgia Southern University  
## 164 Grinnell College  
## 165 Hood College  
## 166 Lawrence Technological University  
## 167 Luther College  
## 168 Lyndon State College  
## 169 Oakland University  
## 170 Ohio Northern University  
## 171 Thomas College  
## 172 Trinity College  
## 173 Tufts University  
## 174 University of Arkansas  
## 175 University of Dallas  
## 176 University of Mary Washington  
## 177 University of Montevallo  
## 178 University of Science and Arts of Oklahoma  
## 179 Wartburg College  
## 180 Western Kentucky University  
## 181 Willamette University  
## 182 Bates College  
## 183 Bennington College  
## 184 Campbellsville University  
## 185 Cleary University  
## 186 Colby College  
## 187 Eastern Michigan University  
## 188 Ferris State University  
## 189 Kenyon College  
## 190 Merrimack College  
## 191 Milwaukee School of Engineering  
## 192 Missouri University of Science and Technology  
## 193 Mount St. Mary's University  
## 194 Northwest Missouri State University  
## 195 Oglethorpe University  
## 196 Peru State College  
## 197 Randolph College  
## 198 Rice University  
## 199 Saint Cloud State University  
## 200 University of Central Florida  
## 201 University of Houston  
## 202 University of Louisville  
## 203 University of Maine  
## 204 University of Vermont  
## 205 University of Wisconsin-Milwaukee  
## 206 University of Wisconsin-Platteville  
## 207 Washington State University  
## 208 Webster University  
## 209 Wesley College  
## 210 Western Connecticut State University  
## 211 Western Oregon University  
## 212 Wilmington University  
## 213 Andrews University  
## 214 Athens State University  
## 215 Auburn University  
## 216 Cardinal Stritch University  
## 217 Cleveland State University  
## 218 Florida Atlantic University  
## 219 Florida International University  
## 220 Gonzaga University  
## 221 Hope College  
## 222 Kansas State University  
## 223 Lewis & Clark College  
## 224 Macalester College  
## 225 Metropolitan State University of Denver  
## 226 Mount Mercy University  
## 227 Northwest University  
## 228 Norwich University  
## 229 Pittsburg State University  
## 230 Rose-Hulman Institute of Technology  
## 231 Saint Mary's College of California  
## 232 Salisbury University  
## 233 Smith College  
## 234 Southeastern Louisiana University  
## 235 Southern Connecticut State University  
## 236 Southwestern University  
## 237 Stevenson University  
## 238 Texas Christian University  
## 239 Transylvania University  
## 240 University of Arizona  
## 241 University of North Florida  
## 242 University of North Georgia  
## 243 University of Tulsa  
## 244 University of West Georgia  
## 245 Winona State University  
## 246 Alma College  
## 247 Augsburg University  
## 248 Castleton University  
## 249 Centre College  
## 250 Clarke University  
## 251 Eastern Washington University  
## 252 Eckerd College  
## 253 George Fox University  
## 254 Hamline University  
## 255 Hampden-Sydney College  
## 256 Husson University  
## 257 Kalamazoo College  
## 258 Lindsey Wilson College  
## 259 Marquette University  
## 260 Massachusetts Institute of Technology  
## 261 Middle Tennessee State University  
## 262 Old Dominion University  
## 263 Samford University  
## 264 Seattle Pacific University  
## 265 Southeast Missouri State University  
## 266 Spelman College  
## 267 University of Central Arkansas  
## 268 University of Florida  
## 269 University of Kansas  
## 270 University of Louisiana at Lafayette  
## 271 University of New Haven  
## 272 University of Northern Colorado  
## 273 University of Portland  
## 274 University of San Francisco  
## 275 University of Toledo  
## 276 University of Wisconsin-Oshkosh  
## 277 University of Wisconsin-River Falls  
## 278 Valparaiso University  
## 279 Virginia Commonwealth University  
## 280 Whitworth University  
## 281 Berea College  
## 282 Brescia University  
## 283 Butler University  
## 284 California Institute of Technology  
## 285 Fisk University  
## 286 Florida Institute of Technology  
## 287 Grove City College  
## 288 Hanover College  
## 289 John Brown University  
## 290 LeTourneau University  
## 291 Lewis University  
## 292 Lyon College  
## 293 Maryville University of Saint Louis  
## 294 Massachusetts Maritime Academy  
## 295 Metropolitan State University  
## 296 Midway University  
## 297 Missouri Western State University  
## 298 Nicholls State University  
## 299 Oregon State University  
## 300 Pacific Lutheran University  
## 301 Radford University  
## 302 Roanoke College  
## 303 Rollins College  
## 304 San Jose State University  
## 305 Southeastern Oklahoma State University  
## 306 Spring Hill College  
## 307 University of Colorado Colorado Springs  
## 308 University of Hartford  
## 309 University of Wisconsin-La Crosse  
## 310 Wayne State University  
## 311 Wentworth Institute of Technology  
## 312 Wesleyan University  
## 313 Whitman College  
## 314 Yale University  
## 315 Arkansas Tech University  
## 316 Bellarmine University  
## 317 Bowdoin College  
## 318 Calvin College  
## 319 Cameron University  
## 320 Clark Atlanta University  
## 321 Edgewood College  
## 322 Ferrum College  
## 323 Freed-Hardeman University  
## 324 Georgetown College  
## 325 Longwood University  
## 326 McDaniel College  
## 327 Middlebury College  
## 328 Montana State University  
## 329 Oklahoma Panhandle State University  
## 330 Saginaw Valley State University  
## 331 Saint Mary's College  
## 332 Southern Oregon University  
## 333 Texas Tech University  
## 334 University of Alaska Fairbanks  
## 335 University of Central Missouri  
## 336 University of Evansville  
## 337 University of Idaho  
## 338 Walla Walla University  
## 339 Washburn University  
## 340 Wayne State College  
## 341 Baker University  
## 342 Boise State University  
## 343 Carroll College  
## 344 Central College  
## 345 Chaminade University of Honolulu  
## 346 Christopher Newport University  
## 347 Colorado Mesa University  
## 348 Fort Lewis College  
## 349 Harvey Mudd College  
## 350 Hastings College  
## 351 Indiana State University  
## 352 Northwestern Oklahoma State University  
## 353 Shorter University  
## 354 University of Arkansas at Little Rock  
## 355 University of Indianapolis  
## 356 University of Memphis  
## 357 University of Mississippi  
## 358 University of New Orleans  
## 359 University of Southern Maine  
## 360 Washington College  
## 361 Adams State University  
## 362 Bellevue College  
## 363 Creighton University  
## 364 Eastern Kentucky University  
## 365 Eastern Oregon University  
## 366 Hawaii Pacific University  
## 367 Loras College  
## 368 Manchester University  
## 369 Millsaps College  
## 370 Morehead State University  
## 371 Murray State University  
## 372 Northern Arizona University  
## 373 Park University  
## 374 Principia College  
## 375 Saint Louis University  
## 376 Stanford University  
## 377 Thomas More College  
## 378 Trine University  
## 379 University of Baltimore  
## 380 University of Central Oklahoma  
## 381 University of Hawaii at Manoa  
## 382 University of South Alabama  
## 383 University of Southern Mississippi  
## 384 Upper Iowa University  
## 385 Agnes Scott College  
## 386 Amberton University  
## 387 Bellevue University  
## 388 Brigham Young University-Hawaii  
## 389 Dordt College  
## 390 Earlham College  
## 391 East Tennessee State University  
## 392 Green Mountain College  
## 393 Henderson State University  
## 394 Johns Hopkins University  
## 395 Kentucky State University  
## 396 Lamar University  
## 397 Louisiana Tech University  
## 398 Marietta College  
## 399 McNeese State University  
## 400 Middle Georgia State University  
## 401 Mississippi College  
## 402 Mississippi State University  
## 403 Oklahoma Christian University  
## 404 Shenandoah University  
## 405 University of Alabama at Birmingham  
## 406 University of Alaska Anchorage  
## 407 University of Detroit Mercy  
## 408 University of Utah  
## 409 Utah Valley University  
## 410 Valdosta State University  
## 411 Western Governors University  
## 412 Wichita State University  
## 413 Widener University  
## 414 Hendrix College  
## 415 Lawrence University  
## 416 Louisiana College  
## 417 Morehouse College  
## 418 Northeastern State University  
## 419 Notre Dame of Maryland University  
## 420 Oklahoma City University  
## 421 Oklahoma Wesleyan University  
## 422 Ouachita Baptist University  
## 423 Regis University  
## 424 Southwestern Oklahoma State University  
## 425 University of Maine at Presque Isle  
## 426 University of the Ozarks  
## 427 University of Wyoming  
## 428 Asbury University  
## 429 Beloit College  
## 430 Brigham Young University-Idaho  
## 431 Columbus State University  
## 432 Friends University  
## 433 Lipscomb University  
## 434 McPherson College  
## 435 Menlo College  
## 436 Oral Roberts University  
## 437 Rockhurst University  
## 438 Rocky Mountain College  
## 439 Seattle University  
## 440 Taylor University  
## 441 Union University  
## 442 University of Alabama in Huntsville  
## 443 University of Bridgeport  
## 444 University of Hawaii at Hilo  
## 445 William Penn University  
## 446 Armstrong State University  
## 447 Belhaven University  
## 448 Christian Brothers University  
## 449 Colorado School of Mines  
## 450 Drury University  
## 451 Emporia State University  
## 452 Lewis-Clark State College  
## 453 MidAmerica Nazarene University  
## 454 Midland University  
## 455 Morningside College  
## 456 Nebraska Wesleyan University  
## 457 Nova Southeastern University  
## 458 Oregon Institute of Technology  
## 459 Ripon College  
## 460 Saint Joseph's College of Maine  
## 461 Saint Martin's University  
## 462 Saint Xavier University  
## 463 Troy University  
## 464 Weber State University  
## 465 William Jewell College  
## 466 Alabama State University  
## 467 Auburn University at Montgomery  
## 468 Carson-Newman University  
## 469 Cumberland University  
## 470 Faulkner University  
## 471 Hampton University  
## 472 Jacksonville State University  
## 473 Kansas Wesleyan University  
## 474 St. Mary's University  
## 475 Tuskegee University  
## 476 University of Arkansas at Monticello  
## 477 University of Maine at Augusta  
## 478 University of North Alabama  
## 479 University of West Alabama  
## 480 Utah State University  
## 481 Virginia State University  
## 482 William Carey University  
## 483 Wittenberg University  
## 484 Albertus Magnus College  
## 485 Covenant College  
## 486 Delaware State University  
## 487 Florida Agricultural and Mechanical University  
## 488 Mercer University  
## 489 Northwest Christian University  
## 490 Oklahoma Baptist University  
## 491 Southern Nazarene University  
## 492 Tabor College  
## 493 Viterbo University  
## 494 Austin Peay State University  
## 495 Capitol Technology University  
## 496 Corban University  
## 497 Delta State University  
## 498 Marylhurst University  
## 499 Milligan College  
## 500 Mississippi University for Women  
## 501 Southern Vermont College  
## 502 Texas A&M University-Kingsville  
## 503 University of Saint Joseph  
## 504 University of the Cumberlands  
## 505 Washington Adventist University  
## 506 Xavier University of Louisiana  
## 507 Fort Hays State University  
## 508 Idaho State University  
## 509 Miles College  
## 510 Montana Tech of the University of Montana  
## 511 University of Maine at Farmington  
## 512 Bowie State University  
## 513 Judson College  
## 514 Kentucky Wesleyan College  
## 515 Maine Maritime Academy  
## 516 Prairie View A&M University  
## 517 Southern Utah University  
## 518 Trevecca Nazarene University  
## 519 University of Louisiana at Monroe  
## 520 Barry University  
## 521 Chadron State College  
## 522 East Central University  
## 523 Grambling State University  
## 524 Jacksonville University  
## 525 Langston University  
## 526 Newman University  
## 527 Pacific University  
## 528 Alaska Pacific University  
## 529 Alcorn State University  
## 530 Jackson State University  
## 531 Southern Adventist University  
## 532 University of Arkansas at Pine Bluff  
## 533 Avila University  
## 534 Charter Oak State College  
## 535 Kentucky Christian University  
## 536 Maryville College  
## 537 Northwest Nazarene University  
## 538 Tennessee State University  
## 539 Virginia Military Institute  
## 540 Augusta University  
## 541 Benedictine College  
## 542 Huntingdon College  
## 543 Prescott College  
## 544 Tougaloo College  
## 545 University of Holy Cross  
## 546 University of New England  
## 547 Colorado Christian University  
## 548 Mississippi Valley State University  
## 549 MCPHS University  
## 550 Mid-America Christian University  
## 551 Oakwood University  
## 552 Spalding University  
## 553 University of the Sciences  
## 554 Sterling College  
## 555 University of Maine at Fort Kent  
## 556 Clarkson College  
## 557 Dillard University  
## 558 University of Pikeville  
## 559 Rust College  
## 560 Southern University at New Orleans  
## 561 University of Mobile  
## 562 Mount Carmel College of Nursing  
## 563 Oregon Health & Science University  
## 564 University of Nebraska Medical Center  
## 565 Multnomah University  
## 566 Lakeview College of Nursing  
## 567 University of Arkansas for Medical Sciences  
## 568 Jefferson College of Health Sciences  
## 569 Texas Tech University Health Sciences Center  
## 570 Adventist University of Health Sciences  
## 571 Rush University  
## 572 Bellin College  
## make\_world\_better\_percent  
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Useful for EDA: -make a correlation matrix

Questions these models hope to answer -Does the aspiration of making the world better have an impact on the mid career payment? -How does it affect the early stage of a students career? -Does it apply to only some specific fields?

-Are more diverse schools likely to have a higher % of alumni who want to change the world?

-Do lower tuition and fees cause people to want to care more about the world?

Translate these questions into statistical models: What variables most impacts mid level pay? (LASSO or PCA + linear regression)

college\_dataset <- college\_data %>%   
 dummy\_cols(select\_columns = "degree\_length") %>%   
 dummy\_cols(select\_columns = "type") %>%   
 rename(length\_2y="degree\_length\_2 Year",   
 length\_4y="degree\_length\_4 Year",   
 for\_profit="type\_For Profit",   
 private="type\_Private",   
 public = "type\_Public") %>%   
 select(-degree\_length\_Other, -type\_Other) %>%   
 filter(!is.na(make\_world\_better\_percent)) %>%   
 filter(!is.na(total\_enrollment)) %>%   
 mutate(women\_ratio=round(women/total\_enrollment\*100, 2),  
 native\_american\_ratio=round(native\_american/total\_enrollment\*100, 2),  
 asian\_ratio=round(asian/total\_enrollment\*100, 2),  
 black\_ratio=round(black/total\_enrollment\*100, 2),  
 hispanic\_ratio=round(hispanic/total\_enrollment\*100, 2),  
 pacific\_islander\_ratio=round(pacific\_islander/total\_enrollment\*100, 2),  
 white\_ratio=round(white/total\_enrollment\*100, 2),  
 minority\_ratio=round(total\_minority/total\_enrollment\*100, 2)) %>%   
 mutate(ln\_early\_career\_pay=log(early\_career\_pay),  
 ln\_mid\_career\_pay=log(mid\_career\_pay),  
 ln\_in\_state\_tuition=log(in\_state\_tuition),  
 ln\_in\_state\_total=log(in\_state\_total),  
 ln\_out\_of\_state\_tuition=log(out\_of\_state\_tuition),  
 ln\_out\_of\_state\_total=log(out\_of\_state\_total),  
 ln\_room\_and\_board=log(room\_and\_board))  
college\_dataset <- na.omit(college\_dataset)  
college\_dataset

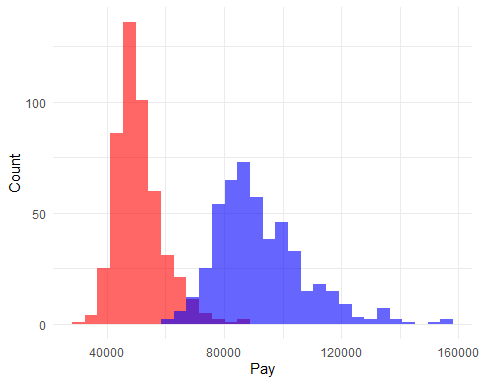
## name state state\_code  
## 1 Adams State University Colorado CO  
## 2 Agnes Scott College Georgia GA  
## 3 Alabama State University Alabama AL  
## 4 Alaska Pacific University Alaska AK  
## 5 Albertus Magnus College Connecticut CT  
## 6 Albion College Michigan MI  
## 7 Alcorn State University Mississippi MS  
## 8 Alma College Michigan MI  
## 9 Amherst College Massachusetts MA  
## 10 Andrews University Michigan MI  
## 11 Arkansas Tech University Arkansas AR  
## 12 Asbury University Kentucky KY  
## 14 Auburn University Alabama AL  
## 15 Auburn University at Montgomery Alabama AL  
## 16 Augusta University Georgia GA  
## 17 Austin Peay State University Tennessee TN  
## 18 Avila University Missouri MO  
## 19 Babson College Massachusetts MA  
## 20 Baker University Kansas KS  
## 21 Ball State University Indiana IN  
## 22 Barry University Florida FL  
## 23 Bates College Maine ME  
## 24 Baylor University Texas TX  
## 25 Belhaven University Mississippi MS  
## 26 Bellarmine University Kentucky KY  
## 28 Bellevue University Nebraska NE  
## 30 Belmont University Tennessee TN  
## 31 Beloit College Wisconsin WI  
## 32 Benedictine College Kansas KS  
## 33 Bennington College Vermont VT  
## 34 Bentley University Massachusetts MA  
## 35 Berea College Kentucky KY  
## 36 Berry College Georgia GA  
## 37 Boise State University Idaho ID  
## 38 Boston College Massachusetts MA  
## 39 Boston University Massachusetts MA  
## 40 Bowdoin College Maine ME  
## 41 Bowie State University Maryland MD  
## 42 Bradley University Illinois IL  
## 43 Brandeis University Massachusetts MA  
## 44 Brescia University Kentucky KY  
## 45 Bucknell University Pennsylvania PA  
## 46 Butler University Indiana IN  
## 47 California Institute of Technology California CA  
## 48 Calvin College Michigan MI  
## 49 Cameron University Oklahoma OK  
## 50 Campbellsville University Kentucky KY  
## 51 Cardinal Stritch University Wisconsin WI  
## 52 Carleton College Minnesota MN  
## 53 Carnegie Mellon University Pennsylvania PA  
## 54 Carroll College Montana MT  
## 55 Carroll University Wisconsin WI  
## 56 Carson-Newman University Tennessee TN  
## 57 Carthage College Wisconsin WI  
## 58 Case Western Reserve University Ohio OH  
## 59 Centenary College of Louisiana Louisiana LA  
## 60 Central College Iowa IA  
## 61 Central Connecticut State University Connecticut CT  
## 62 Central Michigan University Michigan MI  
## 63 Central Washington University Washington WA  
## 64 Centre College Kentucky KY  
## 65 Chadron State College Nebraska NE  
## 66 Chaminade University of Honolulu Hawaii HI  
## 67 Champlain College Vermont VT  
## 69 Christian Brothers University Tennessee TN  
## 70 Christopher Newport University Virginia VA  
## 71 Claremont McKenna College California CA  
## 72 Clark Atlanta University Georgia GA  
## 73 Clark University Massachusetts MA  
## 74 Clarke University Iowa IA  
## 75 Clarkson College Nebraska NE  
## 76 Cleary University Michigan MI  
## 77 Cleveland State University Ohio OH  
## 78 Coe College Iowa IA  
## 79 Colby College Maine ME  
## 80 College for Creative Studies Michigan MI  
## 81 College of Saint Mary Nebraska NE  
## 82 College of the Holy Cross Massachusetts MA  
## 83 Colorado Christian University Colorado CO  
## 84 Colorado College Colorado CO  
## 85 Colorado Mesa University Colorado CO  
## 86 Colorado School of Mines Colorado CO  
## 87 Columbus State University Georgia GA  
## 88 Connecticut College Connecticut CT  
## 89 Corban University Oregon OR  
## 90 Cornell College Iowa IA  
## 91 Cornish College of the Arts Washington WA  
## 92 Covenant College Georgia GA  
## 93 Creighton University Nebraska NE  
## 94 Cumberland University Tennessee TN  
## 95 Delaware State University Delaware DE  
## 96 Delta State University Mississippi MS  
## 97 Denison University Ohio OH  
## 98 DePaul University Illinois IL  
## 99 DePauw University Indiana IN  
## 100 Dickinson College Pennsylvania PA  
## 101 Dillard University Louisiana LA  
## 102 Dordt College Iowa IA  
## 103 Drake University Iowa IA  
## 104 Drexel University Pennsylvania PA  
## 105 Drury University Missouri MO  
## 106 East Tennessee State University Tennessee TN  
## 107 Eastern Connecticut State University Connecticut CT  
## 108 Eastern Kentucky University Kentucky KY  
## 109 Eastern Michigan University Michigan MI  
## 110 Eastern Oregon University Oregon OR  
## 111 Eastern Washington University Washington WA  
## 112 Eckerd College Florida FL  
## 113 Edgewood College Wisconsin WI  
## 114 Emory University Georgia GA  
## 115 Emporia State University Kansas KS  
## 116 Fairfield University Connecticut CT  
## 117 Faulkner University Alabama AL  
## 118 Ferris State University Michigan MI  
## 119 Ferrum College Virginia VA  
## 120 Fisk University Tennessee TN  
## 121 Florida Atlantic University Florida FL  
## 122 Florida Institute of Technology Florida FL  
## 123 Florida International University Florida FL  
## 124 Florida State University Florida FL  
## 125 Fort Hays State University Kansas KS  
## 126 Fort Lewis College Colorado CO  
## 127 Freed-Hardeman University Tennessee TN  
## 128 Friends University Kansas KS  
## 129 Frostburg State University Maryland MD  
## 130 George Fox University Oregon OR  
## 131 George Mason University Virginia VA  
## 132 Georgetown College Kentucky KY  
## 133 Georgia Southern University Georgia GA  
## 134 Georgia State University Georgia GA  
## 135 Gettysburg College Pennsylvania PA  
## 136 Goldey-Beacom College Delaware DE  
## 137 Gonzaga University Washington WA  
## 138 Goucher College Maryland MD  
## 139 Grambling State University Louisiana LA  
## 140 Green Mountain College Vermont VT  
## 141 Grinnell College Iowa IA  
## 142 Gustavus Adolphus College Minnesota MN  
## 143 Hamline University Minnesota MN  
## 144 Hampden-Sydney College Virginia VA  
## 145 Hampton University Virginia VA  
## 146 Hanover College Indiana IN  
## 147 Harding University Arkansas AR  
## 148 Harvey Mudd College California CA  
## 149 Hastings College Nebraska NE  
## 150 Haverford College Pennsylvania PA  
## 151 Hawaii Pacific University Hawaii HI  
## 152 Henderson State University Arkansas AR  
## 153 Hendrix College Arkansas AR  
## 154 Hood College Maryland MD  
## 155 Hope College Michigan MI  
## 156 Huntingdon College Alabama AL  
## 157 Husson University Maine ME  
## 158 Idaho State University Idaho ID  
## 159 Illinois Institute of Technology Illinois IL  
## 160 Illinois State University Illinois IL  
## 161 Illinois Wesleyan University Illinois IL  
## 162 Indiana State University Indiana IN  
## 163 Iowa State University Iowa IA  
## 164 Jackson State University Mississippi MS  
## 165 Jacksonville State University Alabama AL  
## 166 Jacksonville University Florida FL  
## 167 James Madison University Virginia VA  
## 168 Jefferson College of Health Sciences Virginia VA  
## 169 John Brown University Arkansas AR  
## 170 John Carroll University Ohio OH  
## 171 Johns Hopkins University Maryland MD  
## 172 Kalamazoo College Michigan MI  
## 173 Kansas State University Kansas KS  
## 174 Kansas Wesleyan University Kansas KS  
## 175 Kennesaw State University Georgia GA  
## 176 Kentucky Christian University Kentucky KY  
## 177 Kentucky State University Kentucky KY  
## 178 Kentucky Wesleyan College Kentucky KY  
## 179 Kenyon College Ohio OH  
## 180 Kettering University Michigan MI  
## 181 Knox College Illinois IL  
## 182 La Salle University Pennsylvania PA  
## 183 Lafayette College Pennsylvania PA  
## 184 Lake Forest College Illinois IL  
## 185 Lake Superior State University Michigan MI  
## 187 Lamar University Texas TX  
## 188 Langston University Oklahoma OK  
## 189 Lawrence Technological University Michigan MI  
## 190 Lawrence University Wisconsin WI  
## 191 Lehigh University Pennsylvania PA  
## 192 LeTourneau University Texas TX  
## 193 Lewis & Clark College Oregon OR  
## 194 Lewis University Illinois IL  
## 195 Lewis-Clark State College Idaho ID  
## 196 Lindenwood University Missouri MO  
## 197 Lindsey Wilson College Kentucky KY  
## 198 Lipscomb University Tennessee TN  
## 199 Longwood University Virginia VA  
## 200 Loras College Iowa IA  
## 201 Louisiana College Louisiana LA  
## 202 Louisiana Tech University Louisiana LA  
## 203 Loyola Marymount University California CA  
## 204 Loyola University Chicago Illinois IL  
## 205 Loyola University Maryland Maryland MD  
## 206 Loyola University New Orleans Louisiana LA  
## 207 Luther College Iowa IA  
## 208 Lyndon State College Vermont VT  
## 209 Lyon College Arkansas AR  
## 210 Macalester College Minnesota MN  
## 211 Maine College of Art Maine ME  
## 212 Maine Maritime Academy Maine ME  
## 213 Manchester University Indiana IN  
## 214 Marietta College Ohio OH  
## 215 Marquette University Wisconsin WI  
## 216 Maryland Institute College of Art Maryland MD  
## 218 Marymount University Virginia VA  
## 219 Maryville College Tennessee TN  
## 220 Maryville University of Saint Louis Missouri MO  
## 221 Massachusetts Institute of Technology Massachusetts MA  
## 222 Massachusetts Maritime Academy Massachusetts MA  
## 223 McDaniel College Maryland MD  
## 224 McNeese State University Louisiana LA  
## 225 McPherson College Kansas KS  
## 226 MCPHS University Massachusetts MA  
## 227 Menlo College California CA  
## 228 Mercer University Georgia GA  
## 229 Merrimack College Massachusetts MA  
## 231 Michigan State University Michigan MI  
## 232 Michigan Technological University Michigan MI  
## 233 Mid-America Christian University Oklahoma OK  
## 234 MidAmerica Nazarene University Kansas KS  
## 235 Middle Tennessee State University Tennessee TN  
## 236 Middlebury College Vermont VT  
## 237 Midland University Nebraska NE  
## 238 Miles College Alabama AL  
## 239 Milligan College Tennessee TN  
## 240 Millsaps College Mississippi MS  
## 241 Milwaukee School of Engineering Wisconsin WI  
## 242 Minneapolis College of Art and Design Minnesota MN  
## 243 Mississippi College Mississippi MS  
## 244 Mississippi State University Mississippi MS  
## 245 Mississippi University for Women Mississippi MS  
## 246 Mississippi Valley State University Mississippi MS  
## 247 Missouri University of Science and Technology Missouri MO  
## 249 Montana Tech of the University of Montana Montana MT  
## 250 Morehead State University Kentucky KY  
## 251 Morehouse College Georgia GA  
## 252 Morningside College Iowa IA  
## 253 Mount Carmel College of Nursing Ohio OH  
## 254 Mount Mercy University Iowa IA  
## 255 Muhlenberg College Pennsylvania PA  
## 256 Multnomah University Oregon OR  
## 257 Murray State University Kentucky KY  
## 258 Nebraska Wesleyan University Nebraska NE  
## 259 New College of Florida Florida FL  
## 260 Newman University Kansas KS  
## 261 Nicholls State University Louisiana LA  
## 262 North Central College Illinois IL  
## 263 Northeastern State University Oklahoma OK  
## 264 Northeastern University Massachusetts MA  
## 265 Northern Arizona University Arizona AZ  
## 266 Northern Illinois University Illinois IL  
## 267 Northern Kentucky University Kentucky KY  
## 268 Northwest Christian University Oregon OR  
## 269 Northwest Missouri State University Missouri MO  
## 270 Northwest Nazarene University Idaho ID  
## 271 Northwestern Oklahoma State University Oklahoma OK  
## 272 Northwestern University Illinois IL  
## 273 Norwich University Vermont VT  
## 274 Notre Dame of Maryland University Maryland MD  
## 275 Nova Southeastern University Florida FL  
## 276 Oakland University Michigan MI  
## 277 Oakwood University Alabama AL  
## 278 Oberlin College Ohio OH  
## 279 Oglethorpe University Georgia GA  
## 280 Ohio Northern University Ohio OH  
## 281 Ohio Wesleyan University Ohio OH  
## 282 Oklahoma Baptist University Oklahoma OK  
## 283 Oklahoma Christian University Oklahoma OK  
## 284 Oklahoma City University Oklahoma OK  
## 285 Oklahoma Panhandle State University Oklahoma OK  
## 286 Oklahoma Wesleyan University Oklahoma OK  
## 287 Old Dominion University Virginia VA  
## 288 Oral Roberts University Oklahoma OK  
## 290 Oregon Institute of Technology Oregon OR  
## 291 Oregon State University Oregon OR  
## 292 Ouachita Baptist University Arkansas AR  
## 293 Pacific Lutheran University Washington WA  
## 294 Pacific University Oregon OR  
## 295 Park University Missouri MO  
## 296 Peru State College Nebraska NE  
## 297 Pittsburg State University Kansas KS  
## 298 Pomona College California CA  
## 299 Portland State University Oregon OR  
## 300 Prairie View A&M University Texas TX  
## 301 Prescott College Arizona AZ  
## 302 Quinnipiac University Connecticut CT  
## 303 Radford University Virginia VA  
## 304 Randolph College Virginia VA  
## 305 Reed College Oregon OR  
## 306 Regis University Colorado CO  
## 307 Rhodes College Tennessee TN  
## 308 Rice University Texas TX  
## 309 Ripon College Wisconsin WI  
## 310 Roanoke College Virginia VA  
## 311 Rockhurst University Missouri MO  
## 312 Rocky Mountain College Montana MT  
## 313 Rogers State University Oklahoma OK  
## 314 Rollins College Florida FL  
## 315 Rose-Hulman Institute of Technology Indiana IN  
## 317 Rust College Mississippi MS  
## 318 Sacred Heart University Connecticut CT  
## 319 Saginaw Valley State University Michigan MI  
## 320 Saint Joseph's College of Maine Maine ME  
## 321 Saint Louis University Missouri MO  
## 322 Saint Martin's University Washington WA  
## 323 Saint Mary's College of California California CA  
## 324 Saint Michael's College Vermont VT  
## 325 Saint Xavier University Illinois IL  
## 326 Salisbury University Maryland MD  
## 327 Samford University Alabama AL  
## 328 San Jose State University California CA  
## 329 Santa Clara University California CA  
## 330 Savannah College of Art and Design Georgia GA  
## 331 Seattle Pacific University Washington WA  
## 332 Seattle University Washington WA  
## 333 Shenandoah University Virginia VA  
## 334 Shorter University Georgia GA  
## 335 Sierra Nevada College Nevada NV  
## 336 Smith College Massachusetts MA  
## 337 Southeast Missouri State University Missouri MO  
## 338 Southeastern Louisiana University Louisiana LA  
## 339 Southeastern Oklahoma State University Oklahoma OK  
## 340 Southern Adventist University Tennessee TN  
## 341 Southern Connecticut State University Connecticut CT  
## 342 Southern Methodist University Texas TX  
## 343 Southern Nazarene University Oklahoma OK  
## 344 Southern Oregon University Oregon OR  
## 345 Southern University at New Orleans Louisiana LA  
## 346 Southern Vermont College Vermont VT  
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## 349 Spelman College Georgia GA  
## 350 Spring Hill College Alabama AL  
## 351 St. Mary's University Texas TX  
## 352 Stanford University California CA  
## 353 Stephens College Missouri MO  
## 354 Stetson University Florida FL  
## 355 Stevenson University Maryland MD  
## 356 Stonehill College Massachusetts MA  
## 357 Swarthmore College Pennsylvania PA  
## 358 Tabor College Kansas KS  
## 359 Taylor University Indiana IN  
## 360 Tennessee State University Tennessee TN  
## 361 Tennessee Technological University Tennessee TN  
## 362 Texas Christian University Texas TX  
## 363 Texas Tech University Texas TX  
## 365 Thomas More College Kentucky KY  
## 366 Tougaloo College Mississippi MS  
## 367 Towson University Maryland MD  
## 368 Transylvania University Kentucky KY  
## 369 Trevecca Nazarene University Tennessee TN  
## 370 Trine University Indiana IN  
## 371 Trinity University Texas TX  
## 372 Troy University Alabama AL  
## 373 Truman State University Missouri MO  
## 374 Tufts University Massachusetts MA  
## 375 Tuskegee University Alabama AL  
## 376 University of Alabama at Birmingham Alabama AL  
## 377 University of Arizona Arizona AZ  
## 378 University of Arkansas at Little Rock Arkansas AR  
## 379 University of Arkansas at Monticello Arkansas AR  
## 380 University of Arkansas at Pine Bluff Arkansas AR  
## 383 University of Bridgeport Connecticut CT  
## 384 University of Central Arkansas Arkansas AR  
## 385 University of Central Florida Florida FL  
## 386 University of Central Missouri Missouri MO  
## 387 University of Central Oklahoma Oklahoma OK  
## 388 University of Chicago Illinois IL  
## 389 University of Connecticut Connecticut CT  
## 390 University of Dallas Texas TX  
## 391 University of Dayton Ohio OH  
## 392 University of Delaware Delaware DE  
## 393 University of Denver Colorado CO  
## 394 University of Detroit Mercy Michigan MI  
## 395 University of Dubuque Iowa IA  
## 396 University of Evansville Indiana IN  
## 397 University of Florida Florida FL  
## 398 University of Georgia Georgia GA  
## 399 University of Hartford Connecticut CT  
## 400 University of Hawaii at Hilo Hawaii HI  
## 401 University of Houston Texas TX  
## 403 University of Idaho Idaho ID  
## 404 University of Illinois at Chicago Illinois IL  
## 405 University of Illinois at Urbana-Champaign Illinois IL  
## 406 University of Indianapolis Indiana IN  
## 407 University of Iowa Iowa IA  
## 408 University of Kansas Kansas KS  
## 409 University of Kentucky Kentucky KY  
## 410 University of Louisiana at Lafayette Louisiana LA  
## 411 University of Louisiana at Monroe Louisiana LA  
## 412 University of Louisville Kentucky KY  
## 413 University of Maine Maine ME  
## 415 University of Maine at Farmington Maine ME  
## 416 University of Maine at Fort Kent Maine ME  
## 417 University of Maine at Machias Maine ME  
## 418 University of Maine at Presque Isle Maine ME  
## 419 University of Memphis Tennessee TN  
## 420 University of Miami Florida FL  
## 421 University of Mississippi Mississippi MS  
## 422 University of Mobile Alabama AL  
## 423 University of Montevallo Alabama AL  
## 424 University of Mount Union Ohio OH  
## 426 University of New England Maine ME  
## 427 University of New Haven Connecticut CT  
## 428 University of New Orleans Louisiana LA  
## 429 University of North Alabama Alabama AL  
## 430 University of North Florida Florida FL  
## 431 University of North Georgia Georgia GA  
## 432 University of Northern Colorado Colorado CO  
## 433 University of Northern Iowa Iowa IA  
## 434 University of Notre Dame Indiana IN  
## 435 University of Oregon Oregon OR  
## 436 University of Pennsylvania Pennsylvania PA  
## 437 University of Pikeville Kentucky KY  
## 438 University of Portland Oregon OR  
## 439 University of Puget Sound Washington WA  
## 440 University of Richmond Virginia VA  
## 441 University of Saint Joseph Connecticut CT  
## 442 University of San Diego California CA  
## 443 University of San Francisco California CA  
## 444 University of Science and Arts of Oklahoma Oklahoma OK  
## 445 University of Scranton Pennsylvania PA  
## 446 University of South Alabama Alabama AL  
## 447 University of Southern California California CA  
## 448 University of Southern Maine Maine ME  
## 449 University of Southern Mississippi Mississippi MS  
## 450 University of the Cumberlands Kentucky KY  
## 451 University of the Ozarks Arkansas AR  
## 452 University of Toledo Ohio OH  
## 453 University of Tulsa Oklahoma OK  
## 454 University of Utah Utah UT  
## 455 University of Vermont Vermont VT  
## 456 University of West Alabama Alabama AL  
## 457 University of West Georgia Georgia GA  
## 458 University of Wisconsin-Parkside Wisconsin WI  
## 459 University of Wisconsin-Stout Wisconsin WI  
## 460 University of Wyoming Wyoming WY  
## 461 Valdosta State University Georgia GA  
## 462 Valparaiso University Indiana IN  
## 463 Vanderbilt University Tennessee TN  
## 464 Vermont Technical College Vermont VT  
## 465 Villanova University Pennsylvania PA  
## 466 Virginia Commonwealth University Virginia VA  
## 467 Virginia Military Institute Virginia VA  
## 468 Virginia State University Virginia VA  
## 469 Viterbo University Wisconsin WI  
## 470 Wabash College Indiana IN  
## 471 Walla Walla University Washington WA  
## 473 Wartburg College Iowa IA  
## 474 Washburn University Kansas KS  
## 475 Washington State University Washington WA  
## 476 Wayne State College Nebraska NE  
## 477 Wayne State University Michigan MI  
## 478 Weber State University Utah UT  
## 479 Webster University Missouri MO  
## 480 Wellesley College Massachusetts MA  
## 481 Wentworth Institute of Technology Massachusetts MA  
## 482 Western Connecticut State University Connecticut CT  
## 484 Western Kentucky University Kentucky KY  
## 485 Western Michigan University Michigan MI  
## 486 Western New England University Massachusetts MA  
## 487 Western Oregon University Oregon OR  
## 488 Western State Colorado University Colorado CO  
## 489 Western Washington University Washington WA  
## 490 Whitman College Washington WA  
## 491 Whitworth University Washington WA  
## 492 Wichita State University Kansas KS  
## 493 Widener University Pennsylvania PA  
## 494 Willamette University Oregon OR  
## 495 William Carey University Mississippi MS  
## 496 William Jewell College Missouri MO  
## 497 William Penn University Iowa IA  
## 498 Williams College Massachusetts MA  
## 499 Winona State University Minnesota MN  
## 500 Wisconsin Lutheran College Wisconsin WI  
## 501 Wittenberg University Ohio OH  
## 502 Worcester Polytechnic Institute Massachusetts MA  
## 503 Xavier University of Louisiana Louisiana LA  
## 504 Yale University Connecticut CT  
## type degree\_length room\_and\_board in\_state\_tuition in\_state\_total  
## 1 Public 4 Year 8782 9440 18222  
## 2 Private 4 Year 12330 41160 53490  
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## 6 1 0 49.76 0.24 1.81 3.71  
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## 8 1 0 54.73 0.64 1.50 3.30  
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## 10 1 0 46.31 0.29 9.22 20.54  
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## 36 1 0 61.32 0.09 1.19 4.27  
## 37 0 1 54.53 0.59 1.96 1.61  
## 38 1 0 54.54 0.10 7.99 4.02  
## 39 1 0 58.44 0.08 10.74 3.71  
## 40 1 0 50.03 0.11 6.32 4.88  
## 41 0 1 62.91 0.11 1.42 83.42  
## 42 1 0 50.43 0.19 2.72 4.62  
## 43 1 0 54.30 0.10 9.79 4.63  
## 44 1 0 73.01 0.85 0.28 12.59  
## 45 1 0 51.96 0.03 3.48 3.15  
## 46 1 0 59.34 0.17 2.45 3.75  
## 47 1 0 30.74 0.18 26.26 1.22  
## 48 1 0 55.37 0.40 4.33 2.35  
## 49 0 1 60.54 5.35 1.68 15.55  
## 50 1 0 57.95 0.18 0.50 10.94  
## 51 1 0 64.37 0.47 1.99 22.09  
## 52 1 0 52.80 0.15 8.95 3.84  
## 53 1 0 37.99 0.07 16.45 3.19  
## 54 1 0 58.26 1.25 1.46 0.76  
## 55 1 0 65.50 0.06 3.37 1.07  
## 56 1 0 59.53 0.13 0.55 6.48  
## 57 1 0 53.97 0.41 1.12 5.19  
## 58 1 0 49.95 0.13 14.33 5.23  
## 59 1 0 56.54 0.97 3.39 14.22  
## 60 1 0 52.16 0.35 1.06 1.84  
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## 62 0 1 56.95 0.67 1.18 11.22  
## 63 0 1 52.10 0.55 4.51 3.09  
## 64 1 0 51.77 0.00 3.32 4.61  
## 65 0 1 58.19 1.19 0.82 3.82  
## 66 1 0 65.38 0.87 26.34 5.52  
## 67 1 0 41.70 0.42 1.51 2.71  
## 69 1 0 56.15 0.30 5.04 31.31  
## 70 0 1 57.40 0.29 2.39 7.93  
## 71 1 0 47.58 0.08 10.73 4.08  
## 72 1 0 73.83 0.40 0.40 84.07  
## 73 1 0 56.85 0.09 5.23 3.53  
## 74 1 0 69.67 0.08 0.75 2.75  
## 75 1 0 87.80 0.57 2.38 4.34  
## 76 1 0 54.00 0.00 2.61 7.64  
## 77 0 1 54.98 0.15 2.98 17.28  
## 78 1 0 56.06 0.21 2.30 4.94  
## 79 1 0 52.95 0.16 5.58 3.03  
## 80 1 0 49.35 0.21 4.18 8.91  
## 81 1 0 97.74 0.49 1.67 6.19  
## 82 1 0 49.01 0.18 5.06 3.95  
## 83 1 0 63.73 0.62 2.71 6.76  
## 84 1 0 53.70 0.44 4.55 2.32  
## 85 0 1 54.01 0.75 1.38 2.39  
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## 87 0 1 59.77 0.43 2.15 35.66  
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## 90 1 0 53.13 0.37 2.39 5.06  
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## 92 1 0 58.74 0.34 1.88 2.73  
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## 94 1 0 57.39 0.34 0.95 12.22  
## 95 0 1 62.77 0.27 1.07 66.32  
## 96 0 1 62.09 0.11 0.66 36.66  
## 97 1 0 57.64 0.04 3.69 6.94  
## 98 1 0 53.15 0.08 7.47 8.92  
## 99 1 0 54.22 0.27 3.39 5.69  
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## 105 1 0 60.45 0.97 1.14 3.77  
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## 107 0 1 52.92 0.30 2.86 6.54  
## 108 0 1 57.49 0.30 0.87 5.93  
## 109 0 1 59.65 0.23 2.52 18.12  
## 110 0 1 64.08 2.27 2.11 2.71  
## 111 0 1 55.62 1.24 2.94 3.21  
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## 121 0 1 57.03 0.19 4.35 18.74  
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## 141 1 0 54.61 0.17 7.38 5.77  
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## 162 0 1 55.07 0.27 1.36 16.68  
## 163 0 1 43.98 0.23 2.73 2.59  
## 164 0 1 64.63 0.41 0.45 89.30  
## 165 0 1 57.49 0.70 0.58 23.44  
## 166 1 0 66.44 0.34 1.71 14.86  
## 167 0 1 59.59 0.15 4.26 4.14  
## 168 1 0 79.84 0.09 2.48 7.25  
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## 171 1 0 51.98 0.16 13.66 6.64  
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## 174 1 0 54.08 0.56 1.13 6.06  
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## 182 1 0 65.99 0.26 4.58 17.27  
## 183 1 0 46.86 0.12 3.24 4.71  
## 184 1 0 57.44 0.25 4.98 6.64  
## 185 0 1 52.26 8.64 0.54 3.32  
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## 190 1 0 54.47 0.53 3.97 3.38  
## 191 1 0 44.66 0.10 6.73 3.36  
## 192 1 0 51.48 0.37 1.05 10.42  
## 193 1 0 60.05 1.57 6.45 2.11  
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## 195 0 1 60.64 2.30 0.91 0.77  
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## 477 0 1 55.87 0.30 7.46 17.70  
## 478 0 1 53.43 0.37 1.22 1.23  
## 479 1 0 56.43 0.45 2.52 37.07  
## 480 1 0 97.37 0.04 23.16 5.51  
## 481 1 0 19.44 0.22 6.25 4.65  
## 482 0 1 54.39 0.22 3.36 11.22  
## 484 0 1 58.05 0.23 1.04 9.61  
## 485 0 1 51.07 0.44 1.62 11.01  
## 486 1 0 44.90 0.25 3.75 5.97  
## 487 0 1 60.69 2.02 3.32 3.14  
## 488 0 1 43.23 0.58 0.81 2.28  
## 489 0 1 55.56 0.43 6.45 1.49  
## 490 1 0 56.28 0.33 5.34 0.93  
## 491 1 0 60.32 0.72 3.39 1.92  
## 492 0 1 51.70 0.79 6.27 5.53  
## 493 1 0 61.52 0.35 3.52 14.88  
## 494 1 0 53.81 1.19 6.80 1.91  
## 495 1 0 66.97 0.43 3.02 27.85  
## 496 1 0 60.00 0.38 0.94 5.57  
## 497 1 0 49.92 0.56 1.34 16.19  
## 498 1 0 50.85 0.14 10.49 6.91  
## 499 0 1 62.54 0.10 1.85 2.29  
## 500 1 0 55.47 0.59 1.10 5.34  
## 501 1 0 56.92 0.15 1.22 6.47  
## 502 1 0 31.17 0.08 4.61 2.04  
## 503 1 0 72.55 0.13 12.90 70.16  
## 504 1 0 48.97 0.40 12.82 5.47  
## hispanic\_ratio pacific\_islander\_ratio white\_ratio minority\_ratio  
## 1 25.75 0.32 56.31 38.46  
## 2 8.93 0.23 32.53 52.92  
## 3 1.23 0.05 3.77 92.50  
## 4 2.59 0.69 55.44 29.36  
## 5 14.00 0.13 41.74 49.48  
## 6 3.63 0.08 78.79 12.07  
## 7 0.33 0.30 2.80 95.60  
## 8 3.65 0.07 83.24 11.75  
## 9 13.11 0.06 41.91 43.47  
## 10 13.40 0.38 30.51 45.90  
## 11 6.07 0.07 77.60 18.66  
## 12 2.13 0.27 80.31 13.52  
## 14 2.31 0.00 80.48 12.62  
## 15 0.71 0.18 50.86 38.38  
## 16 4.98 0.28 57.81 37.06  
## 17 5.69 0.19 65.64 31.72  
## 18 6.55 0.26 59.47 30.26  
## 19 8.00 0.07 39.16 22.99  
## 20 4.97 0.37 74.20 19.45  
## 21 3.35 0.12 78.76 13.29  
## 22 23.86 0.14 23.28 52.02  
## 23 6.77 0.00 71.86 20.47  
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## 25 3.50 0.17 28.07 60.96  
## 26 2.80 0.14 82.13 13.11  
## 28 6.84 0.30 57.09 23.77  
## 30 4.14 0.10 79.16 14.20  
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## 44 5.97 0.19 66.67 19.89  
## 45 5.16 0.00 78.26 15.23  
## 46 3.01 0.00 82.63 11.26  
## 47 7.83 0.05 33.64 38.61  
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## 98 14.24 0.16 54.08 34.20  
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## 108 2.04 0.12 83.07 11.45  
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## 127 2.04 0.00 70.33 16.60  
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## 467 4.82 0.76 81.41 17.06  
## 468 1.97 0.02 2.93 87.98  
## 469 2.18 0.04 90.91 7.20  
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## 471 12.40 0.42 71.22 23.64  
## 473 2.53 0.06 77.66 10.84  
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## 475 10.73 0.35 62.75 26.50  
## 476 6.60 0.06 78.79 12.25  
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## 255 10.870376 11.072248 9.372884  
## 256 10.161998 10.456510 9.090430  
## 257 10.108060 10.426143 9.125871  
## 258 10.440039 10.687937 9.171807  
## 259 10.307084 10.576636 9.133891  
## 260 10.332799 10.572598 9.027138  
## 261 9.113279 9.852878 9.204121  
## 262 10.568235 10.817756 9.307376  
## 263 9.596962 10.014939 8.940891  
## 264 10.847141 11.131182 9.733885  
## 265 10.159214 10.494325 9.238150  
## 266 9.414260 10.049404 9.294682  
## 267 9.887358 10.298970 9.212538  
## 268 10.310618 10.580251 9.137770  
## 269 9.708506 10.183881 9.211939  
## 270 10.285343 10.510532 8.909235  
## 271 9.557682 9.848662 8.472196  
## 272 10.907185 11.173150 9.718723  
## 273 10.597035 10.894069 9.535318  
## 274 10.515967 10.794460 9.380083  
## 275 10.338511 10.695348 9.491753  
## 276 10.095347 10.443775 9.220291  
## 277 9.724361 10.167082 9.139059  
## 278 10.916070 11.175941 9.701249  
## 279 10.547970 10.845446 9.487972  
## 280 10.381583 10.689897 9.363061  
## 281 10.731166 10.971469 9.427868  
## 282 10.249132 10.480326 8.902456  
## 283 10.032760 10.340128 9.010669  
## 284 10.342581 10.594683 9.093357  
## 285 9.119650 9.534451 8.454253  
## 286 10.201961 10.480101 9.064621  
## 287 10.301324 10.630843 9.360483  
## 288 10.230198 10.523472 9.153770  
## 290 10.241958 10.521750 9.111404  
## 291 10.313642 10.668862 9.461488  
## 292 10.195784 10.453630 8.972083  
## 293 10.646995 10.875327 9.286375  
## 294 10.698695 10.947749 9.435721  
## 295 9.445412 9.945109 9.011889  
## 296 8.920255 9.648079 8.988446  
## 297 9.833172 10.181877 8.959055  
## 298 10.873888 11.149024 9.724122  
## 299 10.205812 10.531776 9.252250  
## 300 10.120331 10.427269 9.096612  
## 301 10.357267 10.576049 8.948976  
## 302 10.778123 11.042922 9.584659  
## 303 10.036488 10.381304 9.149103  
## 304 10.586206 10.881156 9.516353  
## 305 10.939160 11.164077 9.561701  
## 306 10.513525 10.786635 9.355306  
## 307 10.776662 10.990247 9.341632  
## 308 10.765322 11.024350 9.546813  
## 309 10.687572 10.862991 9.035987  
## 310 10.692626 10.963359 9.524421  
## 311 10.534493 10.774572 9.230143  
## 312 10.258080 10.514394 9.027619  
## 313 9.629708 10.078533 9.061376  
## 314 10.814967 11.074343 9.597981  
## 315 10.817195 11.076542 9.600083  
## 317 9.200290 9.560997 8.366370  
## 318 10.631519 10.946058 9.636261  
## 319 10.094728 10.445841 9.228770  
## 320 10.481504 10.806288 9.523690  
## 321 10.689305 10.936209 9.416541  
## 322 10.528249 10.795506 9.345308  
## 323 10.763843 11.045319 9.640173  
## 324 10.722717 10.961191 9.410829  
## 325 10.430580 10.719295 9.336092  
## 326 9.879502 10.356981 9.388487  
## 327 10.362493 10.650176 9.263881  
## 328 9.758462 10.426499 9.707594  
## 329 10.853426 11.106775 9.609787  
## 330 10.508623 10.843104 9.585346  
## 331 10.667536 10.910259 9.375516  
## 332 10.705713 10.949015 9.416378  
## 333 10.389918 10.666627 9.246672  
## 334 10.015476 10.366278 9.148465  
## 335 10.441179 10.770546 9.499796  
## 336 10.866738 11.155164 9.771098  
## 337 9.484557 10.002880 9.097731  
## 338 9.935132 10.277221 9.038365  
## 339 9.641473 10.015029 8.849371  
## 340 9.996522 10.271251 8.845057  
## 341 10.004011 10.462389 9.461877  
## 342 10.905828 11.175184 9.731809  
## 343 10.134123 10.424778 9.047351  
## 344 10.149722 10.565737 9.487896  
## 345 9.320091 9.913438 9.109414  
## 346 10.146865 10.505369 9.305651  
## 347 9.542159 9.891668 8.670772  
## 348 10.106428 10.376611 8.935904  
## 349 10.285820 10.673110 9.537123  
## 350 10.583144 10.876650 9.507626  
## 351 10.330388 10.619374 9.236982  
## 352 10.846498 11.114193 9.665421  
## 353 10.340128 10.635423 9.271624  
## 354 10.737049 10.986682 9.476697  
## 355 10.496317 10.805923 9.482655  
## 356 10.663031 10.980978 9.680344  
## 357 10.870243 11.128174 9.646916  
## 358 10.248672 10.547838 9.195227  
## 359 10.437463 10.685744 9.170976  
## 360 9.969463 10.280896 8.962648  
## 361 10.156539 10.477147 9.183586  
## 362 10.756838 10.997991 9.457513  
## 363 10.064543 10.405020 9.162200  
## 365 10.345606 10.573110 8.980927  
## 366 9.286375 9.766120 8.801319  
## 367 10.052252 10.497974 9.475317  
## 368 10.564886 10.803852 9.255314  
## 369 10.150270 10.434057 9.035987  
## 370 10.378945 10.668606 9.288227  
## 371 10.668397 10.940933 9.507775  
## 372 10.037800 10.343676 9.010058  
## 373 9.587475 10.058823 9.080232  
## 374 10.939905 11.169618 9.586033  
## 375 10.006495 10.367850 9.174713  
## 376 10.111720 10.342710 8.764053  
## 377 10.501939 10.798269 9.437476  
## 378 9.962039 10.313476 9.097172  
## 379 9.513847 9.921819 8.828201  
## 380 9.553504 9.997661 8.972210  
## 383 10.399707 10.751714 9.536762  
## 384 9.633907 10.004599 8.832588  
## 385 10.019803 10.376113 9.171288  
## 386 9.577896 10.052252 9.078636  
## 387 9.818801 10.179072 8.983440  
## 388 10.972156 11.219628 9.701983  
## 389 10.547917 10.839032 9.462965  
## 390 10.612803 10.879028 9.425452  
## 391 10.666627 10.941642 9.516353  
## 392 10.443192 10.761556 9.462033  
## 393 10.830837 11.059755 9.473089  
## 394 10.239960 10.531990 9.158626  
## 395 10.437346 10.692854 9.203316  
## 396 10.502764 10.797042 9.430279  
## 397 10.263188 10.565608 9.222269  
## 398 10.322329 10.607624 9.214133  
## 399 10.613836 10.881250 9.431562  
## 400 9.936922 10.376175 9.341895  
## 401 10.238387 10.551271 9.236982  
## 403 10.146434 10.445230 9.091557  
## 404 10.202851 10.572701 9.398810  
## 405 10.362936 10.668304 9.333266  
## 406 10.298498 10.596035 9.238733  
## 407 10.349231 10.655022 9.321166  
## 408 10.216764 10.537628 9.244742  
## 409 10.278459 10.647352 9.471319  
## 410 10.100041 10.400011 9.049702  
## 411 9.944342 10.264095 8.968269  
## 412 10.213836 10.505177 9.129781  
## 413 10.340774 10.630746 9.251290  
## 415 9.892325 10.292281 9.182558  
## 416 9.418573 9.929886 9.014325  
## 417 9.622450 10.068409 9.046173  
## 418 9.412056 9.935035 9.036701  
## 419 9.971753 10.354181 9.207837  
## 420 10.824288 11.071844 9.554497  
## 421 10.111071 10.471921 9.277625  
## 422 10.035393 10.386531 9.169518  
## 423 10.157354 10.466241 9.140990  
## 424 10.350095 10.632484 9.230143  
## 426 10.535291 10.851471 9.546098  
## 427 10.578216 10.918175 9.674074  
## 428 9.538924 10.104999 9.266248  
## 429 9.835209 10.235665 9.126959  
## 430 9.909072 10.311882 9.207937  
## 431 9.959301 10.275878 8.971575  
## 432 9.974598 10.394457 9.324026  
## 433 9.877144 10.255130 9.099185  
## 434 10.885397 11.138974 9.642772  
## 435 10.476668 10.788102 9.469854  
## 436 10.925651 11.173248 9.656051  
## 437 9.949894 10.266393 8.961879  
## 438 10.734308 10.991275 9.506734  
## 439 10.815288 11.039973 9.436679  
## 440 10.870661 11.079986 9.413281  
## 441 10.575743 10.831727 9.343822  
## 442 10.806855 11.040326 9.471165  
## 443 10.780330 11.049238 9.604407  
## 444 9.773664 10.082261 8.756210  
## 445 10.703963 10.997322 9.627866  
## 446 9.890402 10.216837 8.938532  
## 447 10.937117 11.179130 9.641798  
## 448 10.033638 10.380653 9.153770  
## 449 9.281172 9.932609 9.195937  
## 450 10.043249 10.373491 9.104980  
## 451 10.095347 10.361861 8.909235  
## 452 9.859170 10.327676 9.344347  
## 453 10.633666 10.870947 9.316141  
## 454 10.282438 10.583474 9.236203  
## 455 10.657636 10.914688 9.430439  
## 456 9.824985 10.188892 9.001593  
## 457 9.941457 10.363820 9.298168  
## 458 9.649756 10.066626 8.990442  
## 459 9.765546 10.100164 8.842749  
## 460 9.769385 10.233151 9.241839  
## 461 9.950276 10.277393 9.000853  
## 462 10.603114 10.861304 9.380927  
## 463 10.816091 11.098167 9.694863  
## 464 10.232072 10.555240 9.268421  
## 465 10.883842 11.117331 9.548240  
## 466 10.467038 10.726917 9.252250  
## 467 10.729985 10.917522 9.151439  
## 468 9.882060 10.334750 9.324383  
## 469 10.238888 10.519484 9.111624  
## 470 10.679366 10.887437 9.215328  
## 471 10.241209 10.383132 8.360539  
## 473 10.628133 10.844978 9.209940  
## 474 9.900483 10.246261 9.016391  
## 475 10.179793 10.539085 9.341193  
## 476 9.417273 9.901836 8.944811  
## 477 10.248530 10.562768 9.252154  
## 478 9.716254 10.037319 8.744966  
## 479 10.236382 10.570034 9.310186  
## 480 10.891764 11.159104 9.709174  
## 481 10.432644 10.781869 9.560293  
## 482 10.001476 10.466839 9.478228  
## 484 10.184749 10.458493 9.029178  
## 485 9.640368 10.147061 9.224539  
## 486 10.513362 10.827627 9.517090  
## 487 10.181687 10.514068 9.251002  
## 488 9.979800 10.348846 9.173158  
## 489 10.066626 10.463389 9.347141  
## 490 10.854450 11.081188 9.486000  
## 491 10.683729 10.917558 9.349754  
## 492 9.767210 10.264792 9.328301  
## 493 10.735266 11.008645 9.578173  
## 494 10.821257 11.043146 9.428672  
## 495 9.441452 9.873544 8.826147  
## 496 10.445812 10.699417 9.203316  
## 497 10.150348 10.390594 8.846785  
## 498 10.923237 11.155536 9.581904  
## 499 9.638740 10.100616 9.106090  
## 500 10.299744 10.594507 9.229162  
## 501 10.584056 10.816894 9.245321  
## 502 10.830322 11.086809 9.600624  
## 503 10.105938 10.420345 9.110188  
## 504 10.886128 11.148074 9.680344

* Colleges for Profit did not collected data on “Make World Better”.

#create\_report(college\_dataset)

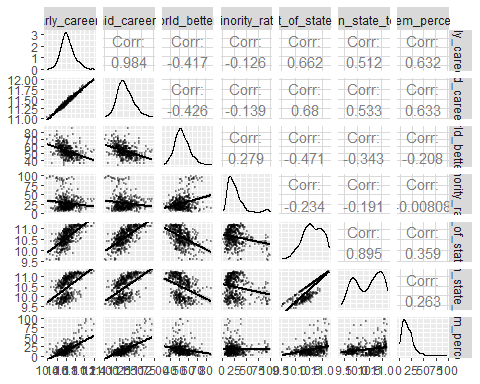
college\_dataset %>%   
 ggplot() +  
 geom\_histogram(mapping = aes(x = early\_career\_pay),   
 fill = "red",  
 alpha = 0.6) +  
 geom\_histogram(mapping = aes(x = mid\_career\_pay),   
 fill = "blue",  
 alpha = 0.6) +  
 xlab("Pay") +  
 ylab("Count") +  
 theme\_minimal()

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.  
## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

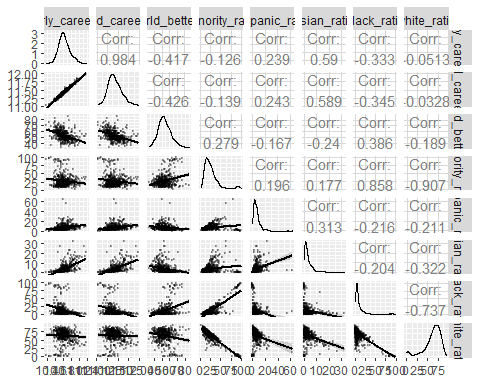


college\_dataset\_shrinked <- college\_dataset %>%   
 select(ln\_early\_career\_pay,   
 ln\_mid\_career\_pay,   
 make\_world\_better\_percent,  
 minority\_ratio,   
 ln\_out\_of\_state\_total,   
 ln\_in\_state\_total,   
 stem\_percent)  
  
college\_dataset\_shrinked2 <- college\_dataset %>%   
 select(ln\_early\_career\_pay,   
 ln\_mid\_career\_pay,   
 make\_world\_better\_percent,   
 minority\_ratio,   
 hispanic\_ratio,   
 asian\_ratio,   
 black\_ratio,   
 white\_ratio)

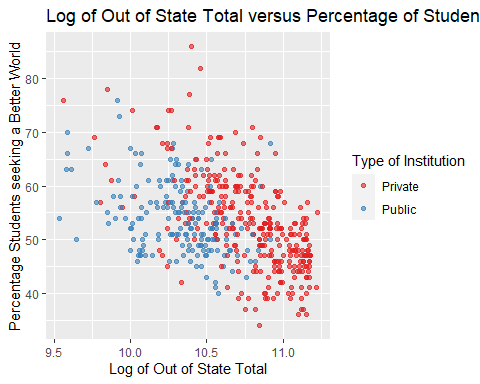
ggpairs(data = college\_dataset\_shrinked, lower = list(continuous = wrap("smooth", alpha = 0.3, size=0.1)))



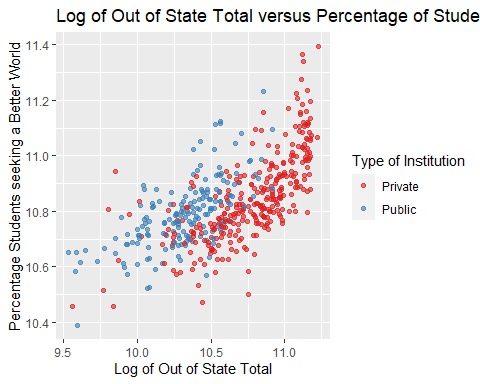
ggpairs(data = college\_dataset\_shrinked2, lower = list(continuous = wrap("smooth", alpha = 0.3, size=0.1)))



college\_dataset %>%   
 ggplot() +   
 geom\_point(aes(x=ln\_out\_of\_state\_total, y=make\_world\_better\_percent, color = type), alpha = 0.6) +   
 labs(  
 title = "Log of Out of State Total versus Percentage of Students seeking a Better World ",   
 x = "Log of Out of State Total",   
 y = "Percentage Students seeking a Better World",   
 color = "Type of Institution") + scale\_color\_brewer(palette = "Set1")



college\_dataset %>%   
 ggplot() +   
 geom\_point(aes(x=ln\_out\_of\_state\_total, y=ln\_early\_career\_pay, color = type), alpha = 0.6) +   
 labs(  
 title = "Log of Out of State Total versus Percentage of Students seeking a Better World ",   
 x = "Log of Out of State Total",   
 y = "Percentage Students seeking a Better World",   
 color = "Type of Institution") + scale\_color\_brewer(palette = "Set1")



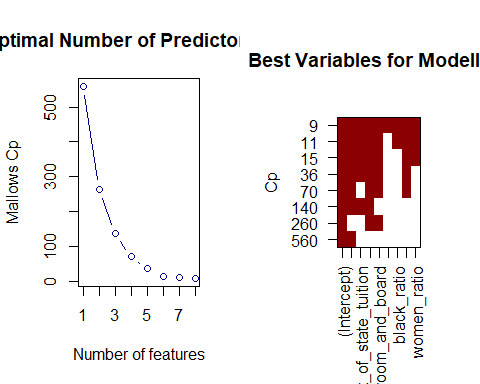
Separating the data into Train and Test

set.seed(123)  
train\_control <- trainControl(method = "cv", number = 10)  
inTrain <- createDataPartition(y = college\_dataset$ln\_early\_career\_pay, p = 0.8, list = FALSE)  
train\_set <- college\_dataset[inTrain , ]  
test\_set <- college\_dataset[-inTrain , ]

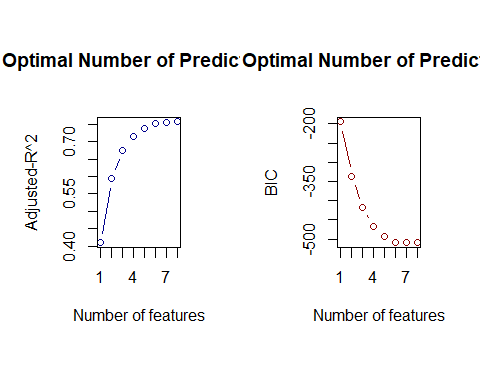
This command separates 80% of the data into a training set, and other 20% into a testing set. This is done to avoid overfitting and it is preferable to perform the final model selection with an out of sample criterion.

**Variables selection**

#Separating the data  
sub\_fit\_pay <- regsubsets(ln\_early\_career\_pay ~   
 asian\_ratio +   
 ln\_out\_of\_state\_tuition +   
 stem\_percent +   
 ln\_room\_and\_board +   
 private +  
 black\_ratio +   
 rank + women\_ratio,   
 data = train\_set)  
  
best\_summary <- summary(sub\_fit\_pay)  
  
#Plots  
par(mfrow = c(1,2))   
plot(best\_summary$cp, xlab = "Number of features", ylab = "Mallows Cp", main = "Optimal Number of Predictors: Cp", col = "dark blue", type = "b")  
  
plot(sub\_fit\_pay, scale = "Cp", main = "Best Variables for Modelling", col = "dark red")



par(mfrow = c(1,2))  
  
plot(best\_summary$adjr2, xlab = "Number of features", ylab = "Adjusted-R^2", main = "Optimal Number of Predictors", col = "dark blue", type = "b")  
  
plot(best\_summary$bic, xlab = "Number of features", ylab = "BIC", main = "Optimal Number of Predictors", col = "dark red", type = "b")



Based on BIC, Mallows’ CP, and the , the select model will account for 6 predictors, more than this will result in overfitting and these variables will be: **stem\_percent, room\_and\_board, ln\_out\_of\_state\_tuition, rank, women\_ratio, black\_ratio, and asian\_ratio**.

# Modeling With other Techniques

set.seed(123)  
train\_control <- trainControl(method = "cv", number = 10)  
inTrain <- createDataPartition(y = college\_dataset\_shrinked2$ln\_early\_career\_pay, p = 0.8, list = FALSE)  
iz\_train\_set <- college\_dataset\_shrinked2[inTrain ,]  
iz\_test\_set <- college\_dataset\_shrinked2[-inTrain ,]

## PCA

This gives an R^2 value of 0.96 but NO IDEA HOW

glm\_pca\_model <- train(ln\_early\_career\_pay ~ . ,   
 data = iz\_train\_set,   
 method = "glm",   
 preProcess = "pca",   
 trControl = train\_control)  
glm\_pca\_model

## Generalized Linear Model   
##   
## 391 samples  
## 7 predictor  
##   
## Pre-processing: principal component signal extraction (7), centered (7),  
## scaled (7)   
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 352, 352, 353, 352, 351, 353, ...   
## Resampling results:  
##   
## RMSE Rsquared MAE   
## 0.02600973 0.9689674 0.02078317

## Simple Linear Regression

earlypay\_lm <- lm(ln\_early\_career\_pay ~ asian\_ratio +   
 ln\_out\_of\_state\_tuition +   
 stem\_percent +   
 ln\_room\_and\_board +   
 black\_ratio +   
 rank +   
 women\_ratio,   
 data = train\_set)  
summary(earlypay\_lm)

##   
## Call:  
## lm(formula = ln\_early\_career\_pay ~ asian\_ratio + ln\_out\_of\_state\_tuition +   
## stem\_percent + ln\_room\_and\_board + black\_ratio + rank + women\_ratio,   
## data = train\_set)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.30078 -0.04237 0.00035 0.04231 0.35748   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 9.0569805 0.1564059 57.907 < 2e-16 \*\*\*  
## asian\_ratio 0.0090572 0.0010398 8.711 < 2e-16 \*\*\*  
## ln\_out\_of\_state\_tuition 0.0578921 0.0129257 4.479 9.92e-06 \*\*\*  
## stem\_percent 0.0022242 0.0003508 6.340 6.49e-10 \*\*\*  
## ln\_room\_and\_board 0.1358547 0.0210501 6.454 3.30e-10 \*\*\*  
## black\_ratio -0.0005545 0.0002217 -2.501 0.0128 \*   
## rank -0.0047159 0.0006317 -7.466 5.63e-13 \*\*\*  
## women\_ratio -0.0016768 0.0003942 -4.254 2.64e-05 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.07413 on 383 degrees of freedom  
## Multiple R-squared: 0.7596, Adjusted R-squared: 0.7552   
## F-statistic: 172.9 on 7 and 383 DF, p-value: < 2.2e-16

## Random Forest

We chose this because

oob <- trainControl(method = "oob")  
cv\_5 <- trainControl(method = "cv", number = 5)  
rf\_grid <- expand.grid(mtry = 1:10)  
  
set.seed(825)  
rf\_model <- train(ln\_early\_career\_pay ~ ., data = iz\_train\_set,  
 method = "rf",  
 trControl = oob,  
 verbose = FALSE,  
 tuneGrid = rf\_grid)

## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range  
  
## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range  
  
## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range  
  
## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range

# print results  
rf\_model

## Random Forest   
##   
## 391 samples  
## 7 predictor  
##   
## No pre-processing  
## Resampling results across tuning parameters:  
##   
## mtry RMSE Rsquared   
## 1 0.06282831 0.8236930  
## 2 0.04463327 0.9110233  
## 3 0.03517773 0.9447294  
## 4 0.03141778 0.9559131  
## 5 0.02945446 0.9612510  
## 6 0.02881794 0.9629076  
## 7 0.02870511 0.9631975  
## 8 0.02867705 0.9632694  
## 9 0.02866979 0.9632880  
## 10 0.02890450 0.9626845  
##   
## RMSE was used to select the optimal model using the smallest value.  
## The final value used for the model was mtry = 9.

calc\_acc <- function(actual, predicted) {  
 mean(actual == predicted)  
}

## SVM

Preprocessing

set.seed(123)  
college\_dataset\_shrinked <- na.omit(college\_dataset\_shrinked)  
  
#Creating trainging and testing data  
inTrain <- createDataPartition(y = college\_dataset\_shrinked$ln\_early\_career\_pay , p = 0.8, list = FALSE)  
  
train\_data <- college\_dataset\_shrinked[inTrain,]  
test\_data <- college\_dataset\_shrinked[-inTrain,]  
  
#train control   
tr\_control <- trainControl(method = "cv", number = 10)  
  
# grid  
tGrid <- expand.grid(C = c(0.01, 0.05, 0.1, 0.25, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 5))

Model

# model 1:  
svm\_model\_1 <- train(ln\_early\_career\_pay ~ .,  
 data = train\_data,   
 method = "svmLinear",  
 tuneGrid = tGrid,   
 trControl = tr\_control,   
 metric = "RMSE",  
 preProcess = c("center", "scale")  
)  
svm\_model\_1

## Support Vector Machines with Linear Kernel   
##   
## 391 samples  
## 6 predictor  
##   
## Pre-processing: centered (6), scaled (6)   
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 352, 352, 353, 352, 351, 353, ...   
## Resampling results across tuning parameters:  
##   
## C RMSE Rsquared MAE   
## 0.01 0.03137632 0.9599350 0.02466370  
## 0.05 0.02632223 0.9682895 0.02112856  
## 0.10 0.02626397 0.9683857 0.02102166  
## 0.25 0.02626106 0.9684300 0.02101648  
## 0.50 0.02625791 0.9684562 0.02100176  
## 0.75 0.02627399 0.9684180 0.02099999  
## 1.00 0.02627902 0.9684051 0.02100850  
## 1.25 0.02627861 0.9684066 0.02100552  
## 1.50 0.02628412 0.9684103 0.02100975  
## 1.75 0.02627257 0.9684241 0.02099864  
## 2.00 0.02628377 0.9684091 0.02100844  
## 5.00 0.02628447 0.9684023 0.02100744  
##   
## RMSE was used to select the optimal model using the smallest value.  
## The final value used for the model was C = 0.5.