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...

# Data Dictionary

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Description | Data Type | Number of Observations |
| name | Institution Name | factor | 486 |
| state\_code | State Abbreviation | factor | 486 |
| make\_world\_better\_percent | Percent of alumni who think they are making the world a better place | integer | 486 |
| room\_and\_board | Room and board in USD | integer | 486 |
| ln\_room\_and\_board | Natural Log of Room and board in U$D | double | 486 |
| early\_career\_pay | Estimated early career pay in USD | int | 486 |
| ln\_early\_career\_pay | Natural log of estimated early career pay in USD | double | 486 |
| mid\_career\_pay | Estimated mid career pay in USD | int | 486 |
| ln\_mid\_career\_pay | Natural log of estimated mid career pay in USD | double | 486 |
| total\_enrollment | Total enrollment of students | double | 486 |
| ln\_total\_enrollment | Natural Log of Total enrollment of students | double | 486 |
| out\_of\_state\_tuition | Tuition for out-of-state residents in USD | integer | 486 |
| ln\_out\_of\_state\_tuition | Natural Log of Tuition for out-of-state residents in USD | double | 486 |
| in\_of\_state\_tuition | Tuition for in-of-state residents in USD | integer | 486 |
| ln\_in\_of\_state\_tuition | Natural Log of Tuition for in-of-state residents in USD | double | 486 |
| stem\_percent | Percent of student body in STEM | double | 486 |
| private | Type: 0 for Public, 1 for Private | integer | 486 |
| asian\_ratio | Percentage of Asian Students | double | 486 |
| black\_ratio | Percentage of Black Students | double | 486 |
| minority\_ratio | Percentage of all Minorities Combined | double | 486 |
| hispanic\_ratio | Percentage of Hispanic Students | double | 486 |
| women\_ratio | Percentage of Women Students | double | 486 |
| tuition\_ratio | Out-of-State Tuition and In-State Tuition Ratio | double | 486 |

Use DataExplorer to automatically create an EDA

#create\_report(college\_data)

EDA etc

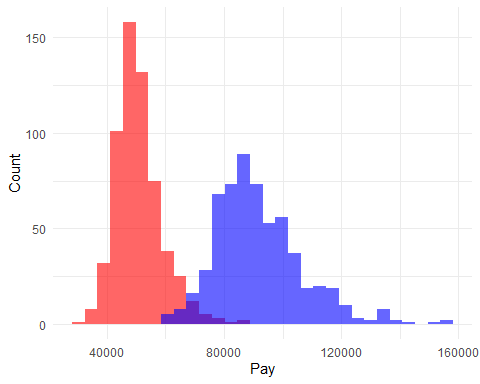
#overlay early pay distribution with middle play distribution  
college\_data %>%   
 ggplot() +  
 geom\_histogram(mapping = aes(x = early\_career\_pay),   
 fill = "red",  
 alpha = 0.6) +  
 geom\_histogram(mapping = aes(x = mid\_career\_pay),   
 fill = "blue",  
 alpha = 0.6) +  
 xlab("Pay") +  
 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  
## 1 33  
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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),  
 ln\_total\_enrollment = log(total\_enrollment),  
 tuition\_ratio=out\_of\_state\_tuition/in\_state\_tuition,  
 tuition\_total\_ratio=out\_of\_state\_total/in\_state\_total)  
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  
## 347 Southwestern Oklahoma State University Oklahoma OK  
## 348 Spalding University Kentucky KY  
## 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  
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## 3 0 1 62.15 0.14 0.36 89.69  
## 4 1 0 66.32 15.03 1.73 2.25  
## 5 1 0 66.52 0.39 0.45 33.23  
## 6 1 0 49.76 0.24 1.81 3.71  
## 7 0 1 65.81 0.08 0.27 93.05  
## 8 1 0 54.73 0.64 1.50 3.30  
## 9 1 0 48.27 0.33 13.06 12.39  
## 10 1 0 46.31 0.29 9.22 20.54  
## 11 0 1 55.73 1.01 1.28 7.66  
## 12 1 0 60.78 0.21 0.75 4.90  
## 14 0 1 49.39 0.71 2.32 7.28  
## 15 0 1 63.93 0.45 2.06 32.29  
## 16 0 1 62.33 0.31 6.26 21.12  
## 17 0 1 60.43 0.40 1.55 18.81  
## 18 1 0 65.29 0.73 1.63 18.83  
## 19 1 0 42.80 0.13 8.99 3.90  
## 20 1 0 58.47 1.83 1.45 9.50  
## 21 0 1 60.70 0.13 1.04 6.67  
## 22 1 0 65.61 0.33 2.14 24.54  
## 23 1 0 50.42 0.23 4.62 4.79  
## 24 1 0 56.27 0.38 5.77 6.94  
## 25 1 0 68.42 0.56 0.49 54.76  
## 26 1 0 67.33 0.25 1.80 5.43  
## 28 1 0 53.18 0.50 2.17 11.82  
## 30 1 0 61.82 0.22 2.17 4.39  
## 31 1 0 58.10 0.38 2.46 4.60  
## 32 1 0 52.57 0.37 1.22 3.27  
## 33 1 0 67.28 1.72 3.31 1.32  
## 34 1 0 42.86 0.07 7.78 2.68  
## 35 1 0 56.08 0.12 1.60 14.93  
## 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  
## 61 0 1 50.14 0.19 3.56 10.18  
## 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  
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## 77 0 1 54.98 0.15 2.98 17.28  
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## 79 1 0 52.95 0.16 5.58 3.03  
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## 81 1 0 97.74 0.49 1.67 6.19  
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## 83 1 0 63.73 0.62 2.71 6.76  
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## 87 0 1 59.77 0.43 2.15 35.66  
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## 96 0 1 62.09 0.11 0.66 36.66  
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## 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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## 106 0 1 57.98 0.26 1.61 5.96  
## 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  
## 112 1 0 62.07 0.34 1.68 4.85  
## 113 1 0 72.05 0.37 2.45 2.75  
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## 128 1 0 57.60 1.33 2.71 10.84  
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## 137 1 0 56.45 0.78 3.93 1.62  
## 138 1 0 70.85 0.24 2.59 10.28  
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## 140 1 0 57.26 0.96 0.84 4.08  
## 141 1 0 54.61 0.17 7.38 5.77  
## 142 1 0 54.21 0.08 3.95 1.87  
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## 144 1 0 0.18 0.45 1.81 7.69  
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## 146 1 0 57.90 0.61 1.40 4.80  
## 147 1 0 57.30 0.76 1.42 5.00  
## 148 1 0 46.39 0.50 20.77 1.62  
## 149 1 0 48.76 0.50 1.32 3.38  
## 150 1 0 52.93 0.34 8.38 5.78  
## 151 1 0 56.67 0.41 15.81 5.92  
## 152 0 1 56.80 0.19 0.63 23.33  
## 153 1 0 54.93 1.62 5.67 4.79  
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## 155 1 0 60.35 0.09 1.56 2.46  
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## 157 1 0 55.46 0.47 2.14 4.30  
## 158 0 1 51.86 1.05 1.33 1.16  
## 159 1 0 35.57 0.15 6.29 3.70  
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## 161 1 0 56.31 0.26 4.33 4.60  
## 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  
## 169 1 0 58.04 1.79 1.19 3.79  
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## 452 0 1 49.91 0.17 2.88 11.90  
## 453 1 0 42.50 5.13 2.73 3.91  
## 454 0 1 44.51 0.40 5.05 1.27  
## 455 0 1 55.57 0.25 3.02 1.29  
## 456 0 1 70.22 0.45 0.15 44.35  
## 457 0 1 64.54 0.14 1.07 35.11  
## 458 0 1 52.17 0.20 2.97 8.45  
## 459 0 1 49.24 0.30 3.27 1.66  
## 460 0 1 51.96 0.56 1.33 0.94  
## 461 0 1 61.24 0.29 1.12 33.37  
## 462 1 0 51.34 0.33 1.93 6.28  
## 463 1 0 53.55 0.28 7.61 7.35  
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## 474 0 1 58.87 0.58 1.13 4.86  
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## 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  
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## 2 8.93 0.23 32.53 52.92  
## 3 1.23 0.05 3.77 92.50  
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## 6 3.63 0.08 78.79 12.07  
## 7 0.33 0.30 2.80 95.60  
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## 10 13.40 0.38 30.51 45.90  
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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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## 108 2.04 0.12 83.07 11.45  
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## 443 17.95 0.65 32.67 46.72  
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## 460 5.84 0.26 74.15 11.32  
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 select(-state, -type, -degree\_length, -early\_career\_pay, -mid\_career\_pay, ln\_mid\_career\_pay)  
college\_dataset\_analysis

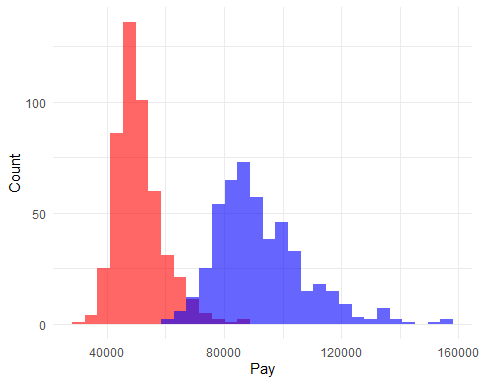
## name state\_code room\_and\_board  
## 1 Adams State University CO 8782  
## 2 Agnes Scott College GA 12330  
## 3 Alabama State University AL 5422  
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## 5 Albertus Magnus College CT 13200  
## 6 Albion College MI 12380  
## 7 Alcorn State University MS 9608  
## 8 Alma College MI 10998  
## 9 Amherst College MA 14740  
## 10 Andrews University MI 9078  
## 11 Arkansas Tech University AR 7870  
## 12 Asbury University KY 7160  
## 14 Auburn University AL 13332  
## 15 Auburn University at Montgomery AL 6980  
## 16 Augusta University GA 9640  
## 17 Austin Peay State University TN 10700  
## 18 Avila University MO 7200  
## 19 Babson College MA 16312  
## 20 Baker University KS 8410  
## 21 Ball State University IN 10234  
## 22 Barry University FL 11100  
## 23 Bates College ME 15224  
## 24 Baylor University TX 12595  
## 25 Belhaven University MS 8500  
## 26 Bellarmine University KY 12250  
## 28 Bellevue University NE 8730  
## 30 Belmont University TN 12120  
## 31 Beloit College WI 8830  
## 32 Benedictine College KS 10300  
## 33 Bennington College VT 15610  
## 34 Bentley University MA 16320  
## 35 Berea College KY 6764  
## 36 Berry College GA 12770  
## 37 Boise State University ID 10692  
## 38 Boston College MA 14478  
## 39 Boston University MA 15720  
## 40 Bowdoin College ME 14698  
## 41 Bowie State University MD 10904  
## 42 Bradley University IL 10620  
## 43 Brandeis University MA 15440  
## 44 Brescia University KY 9200  
## 45 Bucknell University PA 13662  
## 46 Butler University IN 13830  
## 47 California Institute of Technology CA 15525  
## 48 Calvin College MI 10200  
## 49 Cameron University OK 5452  
## 50 Campbellsville University KY 8000  
## 51 Cardinal Stritch University WI 8440  
## 52 Carleton College MN 14085  
## 53 Carnegie Mellon University PA 14418  
## 54 Carroll College MT 9880  
## 55 Carroll University WI 9484  
## 56 Carson-Newman University TN 8810  
## 57 Carthage College WI 11990  
## 58 Case Western Reserve University OH 15190  
## 59 Centenary College of Louisiana LA 13400  
## 60 Central College IA 10280  
## 61 Central Connecticut State University CT 12176  
## 62 Central Michigan University MI 10076  
## 63 Central Washington University WA 11115  
## 64 Centre College KY 10480  
## 65 Chadron State College NE 7380  
## 66 Chaminade University of Honolulu HI 13630  
## 67 Champlain College VT 15354  
## 69 Christian Brothers University TN 7400  
## 70 Christopher Newport University VA 11460  
## 71 Claremont McKenna College CA 16705  
## 72 Clark Atlanta University GA 9524  
## 73 Clark University MA 9170  
## 74 Clarke University IA 9600  
## 75 Clarkson College NE 5398  
## 76 Cleary University MI 9600  
## 77 Cleveland State University OH 13560  
## 78 Coe College IA 9480  
## 79 Colby College ME 14190  
## 80 College for Creative Studies MI 8800  
## 81 College of Saint Mary NE 7700  
## 82 College of the Holy Cross MA 14520  
## 83 Colorado Christian University CO 11846  
## 84 Colorado College CO 12512  
## 85 Colorado Mesa University CO 10925  
## 86 Colorado School of Mines CO 13169  
## 87 Columbus State University GA 9880  
## 88 Connecticut College CT 15150  
## 89 Corban University OR 10228  
## 90 Cornell College IA 9384  
## 91 Cornish College of the Arts WA 12400  
## 92 Covenant College GA 10260  
## 93 Creighton University NE 11036  
## 94 Cumberland University TN 9290  
## 95 Delaware State University DE 12190  
## 96 Delta State University MS 7722  
## 97 Denison University OH 12710  
## 98 DePaul University IL 14235  
## 99 DePauw University IN 13020  
## 100 Dickinson College PA 13698  
## 101 Dillard University LA 10100  
## 102 Dordt College IA 9590  
## 103 Drake University IA 10528  
## 104 Drexel University PA 14079  
## 105 Drury University MO 8096  
## 106 East Tennessee State University TN 8472  
## 107 Eastern Connecticut State University CT 13560  
## 108 Eastern Kentucky University KY 9018  
## 109 Eastern Michigan University MI 9854  
## 110 Eastern Oregon University OR 10040  
## 111 Eastern Washington University WA 12793  
## 112 Eckerd College FL 12588  
## 113 Edgewood College WI 11020  
## 114 Emory University GA 14456  
## 115 Emporia State University KS 8912  
## 116 Fairfield University CT 14710  
## 117 Faulkner University AL 7750  
## 118 Ferris State University MI 9894  
## 119 Ferrum College VA 11500  
## 120 Fisk University TN 10790  
## 121 Florida Atlantic University FL 11896  
## 122 Florida Institute of Technology FL 12880  
## 123 Florida International University FL 10882  
## 124 Florida State University FL 10816  
## 125 Fort Hays State University KS 8300  
## 126 Fort Lewis College CO 9878  
## 127 Freed-Hardeman University TN 8260  
## 128 Friends University KS 7972  
## 129 Frostburg State University MD 10202  
## 130 George Fox University OR 11250  
## 131 George Mason University VA 11460  
## 132 Georgetown College KY 9780  
## 133 Georgia Southern University GA 10070  
## 134 Georgia State University GA 11378  
## 135 Gettysburg College PA 13010  
## 136 Goldey-Beacom College DE 6400  
## 137 Gonzaga University WA 11944  
## 138 Goucher College MD 14506  
## 139 Grambling State University LA 7192  
## 140 Green Mountain College VT 11722  
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## 142 Gustavus Adolphus College MN 9910  
## 143 Hamline University MN 10358  
## 144 Hampden-Sydney College VA 13558  
## 145 Hampton University VA 11778  
## 146 Hanover College IN 11580  
## 147 Harding University AR 7044  
## 148 Harvey Mudd College CA 18127  
## 149 Hastings College NE 9700  
## 150 Haverford College PA 16402  
## 151 Hawaii Pacific University HI 14800  
## 152 Henderson State University AR 7504  
## 153 Hendrix College AR 12284  
## 154 Hood College MD 12700  
## 155 Hope College MI 10310  
## 156 Huntingdon College AL 9750  
## 157 Husson University ME 9830  
## 158 Idaho State University ID 7207  
## 159 Illinois Institute of Technology IL 12762  
## 160 Illinois State University IL 9850  
## 161 Illinois Wesleyan University IL 10984  
## 162 Indiana State University IN 10590  
## 163 Iowa State University IA 8720  
## 164 Jackson State University MS 9552  
## 165 Jacksonville State University AL 8100  
## 166 Jacksonville University FL 14080  
## 167 James Madison University VA 10092  
## 168 Jefferson College of Health Sciences VA 5870  
## 169 John Brown University AR 9224  
## 170 John Carroll University OH 11874  
## 171 Johns Hopkins University MD 15836  
## 172 Kalamazoo College MI 9756  
## 173 Kansas State University KS 9680  
## 174 Kansas Wesleyan University KS 9500  
## 175 Kennesaw State University GA 11467  
## 176 Kentucky Christian University KY 8270  
## 177 Kentucky State University KY 6690  
## 178 Kentucky Wesleyan College KY 9764  
## 179 Kenyon College OH 12510  
## 180 Kettering University MI 8240  
## 181 Knox College IL 9870  
## 182 La Salle University PA 15080  
## 183 Lafayette College PA 15640  
## 184 Lake Forest College IL 10390  
## 185 Lake Superior State University MI 9882  
## 187 Lamar University TX 8920  
## 188 Langston University OK 9476  
## 189 Lawrence Technological University MI 9950  
## 190 Lawrence University WI 10341  
## 191 Lehigh University PA 13600  
## 192 LeTourneau University TX 9970  
## 193 Lewis & Clark College OR 12490  
## 194 Lewis University IL 10578  
## 195 Lewis-Clark State College ID 7580  
## 196 Lindenwood University MO 9000  
## 197 Lindsey Wilson College KY 9385  
## 198 Lipscomb University TN 12652  
## 199 Longwood University VA 11746  
## 200 Loras College IA 8275  
## 201 Louisiana College LA 5618  
## 202 Louisiana Tech University LA 6495  
## 203 Loyola Marymount University CA 14490  
## 204 Loyola University Chicago IL 14480  
## 205 Loyola University Maryland MD 14430  
## 206 Loyola University New Orleans LA 13380  
## 207 Luther College IA 9460  
## 208 Lyndon State College VT 10598  
## 209 Lyon College AR 9130  
## 210 Macalester College MN 12156  
## 211 Maine College of Art ME 11890  
## 212 Maine Maritime Academy ME 10310  
## 213 Manchester University IN 9580  
## 214 Marietta College OH 11320  
## 215 Marquette University WI 12720  
## 216 Maryland Institute College of Art MD 13280  
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## 222 Massachusetts Maritime Academy MA 12675  
## 223 McDaniel College MD 11430  
## 224 McNeese State University LA 8704  
## 225 McPherson College KS 8788  
## 226 MCPHS University MA 16400  
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## 228 Mercer University GA 11616  
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## 240 Millsaps College MS 13730  
## 241 Milwaukee School of Engineering WI 10389  
## 242 Minneapolis College of Art and Design MN 5610  
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## 246 Mississippi Valley State University MS 8043  
## 247 Missouri University of Science and Technology MO 10274  
## 249 Montana Tech of the University of Montana MT 9656  
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## 3 62.15 0.14 0.36 89.69 1.23  
## 4 66.32 15.03 1.73 2.25 2.59  
## 5 66.52 0.39 0.45 33.23 14.00  
## 6 49.76 0.24 1.81 3.71 3.63  
## 7 65.81 0.08 0.27 93.05 0.33  
## 8 54.73 0.64 1.50 3.30 3.65  
## 9 48.27 0.33 13.06 12.39 13.11  
## 10 46.31 0.29 9.22 20.54 13.40  
## 11 55.73 1.01 1.28 7.66 6.07  
## 12 60.78 0.21 0.75 4.90 2.13  
## 14 49.39 0.71 2.32 7.28 2.31  
## 15 63.93 0.45 2.06 32.29 0.71  
## 16 62.33 0.31 6.26 21.12 4.98  
## 17 60.43 0.40 1.55 18.81 5.69  
## 18 65.29 0.73 1.63 18.83 6.55  
## 19 42.80 0.13 8.99 3.90 8.00  
## 20 58.47 1.83 1.45 9.50 4.97  
## 21 60.70 0.13 1.04 6.67 3.35  
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## 23 50.42 0.23 4.62 4.79 6.77  
## 24 56.27 0.38 5.77 6.94 13.20  
## 25 68.42 0.56 0.49 54.76 3.50  
## 26 67.33 0.25 1.80 5.43 2.80  
## 28 53.18 0.50 2.17 11.82 6.84  
## 30 61.82 0.22 2.17 4.39 4.14  
## 31 58.10 0.38 2.46 4.60 8.37  
## 32 52.57 0.37 1.22 3.27 5.24  
## 33 67.28 1.72 3.31 1.32 5.03  
## 34 42.86 0.07 7.78 2.68 5.84  
## 35 56.08 0.12 1.60 14.93 5.86  
## 36 61.32 0.09 1.19 4.27 6.16  
## 37 54.53 0.59 1.96 1.61 9.67  
## 38 54.54 0.10 7.99 4.02 8.65  
## 39 58.44 0.08 10.74 3.71 7.53  
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## 43 54.30 0.10 9.79 4.63 5.43  
## 44 73.01 0.85 0.28 12.59 5.97  
## 45 51.96 0.03 3.48 3.15 5.16  
## 46 59.34 0.17 2.45 3.75 3.01  
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## 48 55.37 0.40 4.33 2.35 3.23  
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## 222 12.69 1.20 2.54 2.20 2.81  
## 223 63.76 0.47 2.78 10.48 4.15  
## 224 62.16 0.64 1.47 17.25 2.56  
## 225 40.06 0.30 0.61 12.44 11.23  
## 226 67.14 0.10 21.18 4.76 2.65  
## 227 40.93 0.76 7.05 6.93 20.91  
## 228 62.00 0.53 6.62 29.82 3.86  
## 229 52.26 0.09 1.35 2.97 5.30  
## 231 51.45 0.25 4.42 6.38 3.75  
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## 233 64.47 3.91 0.52 27.64 6.70  
## 234 64.01 0.70 1.50 10.86 5.56  
## 235 54.23 0.31 2.59 19.39 4.03  
## 236 51.76 0.28 6.71 2.88 8.69  
## 237 50.15 0.37 0.73 4.99 2.79  
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## 239 65.29 0.26 1.29 3.95 4.47  
## 240 49.05 0.71 4.16 10.57 2.14  
## 241 24.06 0.21 3.06 2.56 4.45  
## 242 65.64 0.89 7.28 3.96 6.13  
## 243 59.41 0.52 2.37 23.35 2.49  
## 244 48.59 0.52 1.31 19.22 2.27  
## 245 81.31 0.22 1.52 36.61 0.74  
## 246 59.18 0.05 0.59 91.49 1.13  
## 247 22.62 0.35 2.62 3.36 2.96  
## 249 32.47 1.68 0.96 1.10 1.63  
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## 252 68.40 0.35 0.50 1.03 3.08  
## 253 90.41 0.37 1.38 5.90 1.85  
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## 256 44.09 0.80 1.20 3.72 6.11  
## 257 58.63 0.20 0.88 6.92 1.75  
## 258 63.80 0.29 1.82 2.88 4.42  
## 259 59.23 0.12 2.40 2.64 15.23  
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## 281 53.46 0.06 2.31 6.69 4.15  
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## 331 67.65 0.45 10.20 3.60 7.92  
## 332 59.77 0.56 13.90 2.96 8.41  
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## 334 58.62 0.51 0.83 22.73 3.38  
## 335 57.65 2.98 1.83 3.95 3.18  
## 336 97.93 0.17 11.64 4.98 9.23  
## 337 57.31 0.46 0.98 8.46 1.56  
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## 458 52.17 0.20 2.97 8.45 12.33  
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## pacific\_islander\_ratio white\_ratio minority\_ratio ln\_early\_career\_pay  
## 1 0.32 56.31 38.46 10.70099  
## 2 0.23 32.53 52.92 10.73640  
## 3 0.05 3.77 92.50 10.59162  
## 4 0.69 55.44 29.36 10.82576  
## 5 0.13 41.74 49.48 10.81376  
## 6 0.08 78.79 12.07 10.86092  
## 7 0.30 2.80 95.60 10.61889  
## 8 0.07 83.24 11.75 10.78726  
## 9 0.06 41.91 43.47 11.06351  
## 10 0.38 30.51 45.90 10.77059  
## 11 0.07 77.60 18.66 10.71442  
## 12 0.27 80.31 13.52 10.58152  
## 14 0.00 80.48 12.62 10.90412  
## 15 0.18 50.86 38.38 10.71442  
## 16 0.28 57.81 37.06 10.75790  
## 17 0.19 65.64 31.72 10.69648  
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## 19 0.07 39.16 22.99 11.18442  
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## 24 0.06 64.23 30.65 10.92414  
## 25 0.17 28.07 60.96 10.62619  
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## 28 0.30 57.09 23.77 10.80771  
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## 35 0.19 62.31 28.13 10.58406  
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## 37 0.32 76.12 17.29 10.82178  
## 38 0.01 57.97 23.38 11.06037  
## 39 0.11 45.60 24.87 11.02517  
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## 46 0.00 82.63 11.26 10.85515  
## 47 0.05 33.64 38.61 11.33976  
## 48 0.00 74.58 13.10 10.82377  
## 49 0.65 50.55 42.57 10.68967  
## 50 0.12 77.27 14.56 10.53476  
## 51 0.21 59.12 34.32 10.75790  
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## 54 0.28 78.68 10.28 10.78311  
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## 503 7.998335 1.000000 1.000000  
## 504 9.420277 1.000000 1.000000

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

#create\_report(college\_dataset)

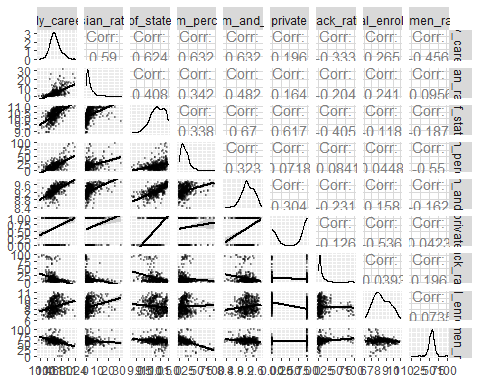
college\_dataset %>%   
 ggplot() +  
 geom\_histogram(mapping = aes(x = early\_career\_pay),   
 fill = "red",  
 alpha = 0.6) +  
 geom\_histogram(mapping = aes(x = mid\_career\_pay),   
 fill = "blue",  
 alpha = 0.6) +  
 xlab("Pay") +  
 ylab("Count") +  
 theme\_minimal()

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

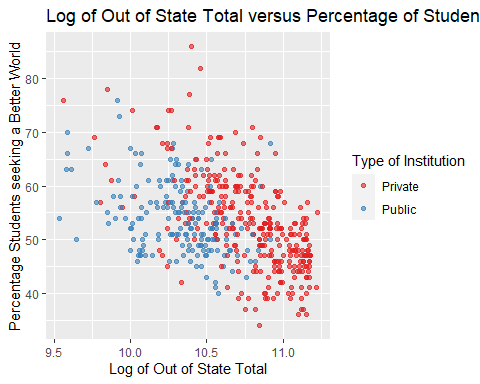


college\_dataset\_shrinked <- college\_dataset %>%   
 select(ln\_early\_career\_pay,  
 asian\_ratio,   
 ln\_out\_of\_state\_tuition,  
 stem\_percent,   
 ln\_room\_and\_board,  
 private,  
 black\_ratio,  
 ln\_total\_enrollment,  
 women\_ratio)

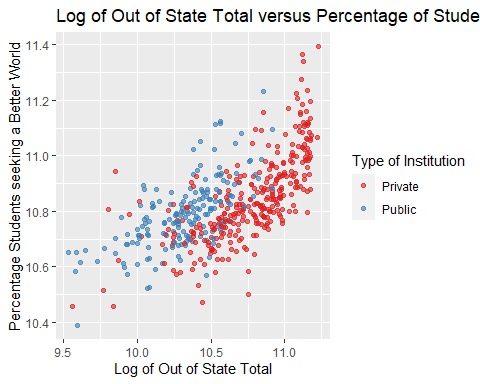
ggpairs(data = college\_dataset\_shrinked, lower = list(continuous = wrap("smooth", alpha = 0.3, size=0.1)))



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")



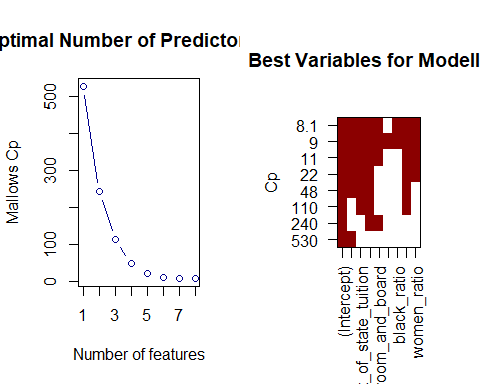
Separating the data into Train and Test

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

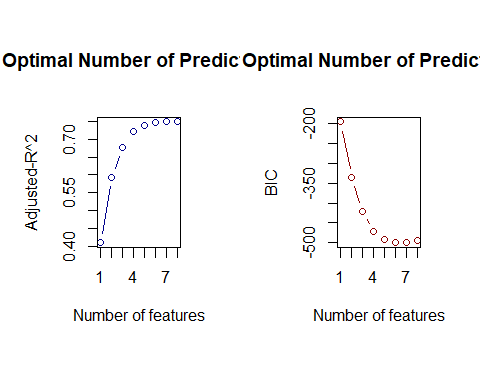
This command separates 80% of the data into a training set, and other 20% into a testing set. This is done to avoid overfitting and it is preferable to perform the final model selection with an out of sample criterion.

**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 +   
 ln\_total\_enrollment +   
 women\_ratio,   
 data = train\_data)  
  
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, ln\_total\_enrollment, women\_ratio, black\_ratio, and asian\_ratio**.

# Modeling With other Techniques

## PCA

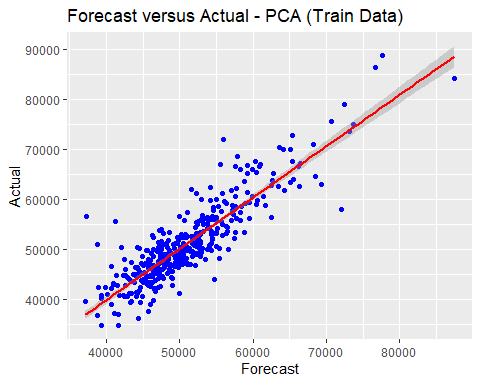
This gives an R^2 value of 0.96 but NO IDEA HOW

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

## Generalized Linear Model   
##   
## 391 samples  
## 8 predictor  
##   
## Pre-processing: principal component signal extraction (8), centered (8),  
## scaled (8)   
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 352, 352, 353, 352, 351, 353, ...   
## Resampling results:  
##   
## RMSE Rsquared MAE   
## 0.075609 0.7469513 0.05634975

#Training Data for PCA  
pca\_train\_data <- predict(glm\_pca\_model)  
  
unlog\_forecast\_pca <- exp(pca\_train\_data)  
  
unlog\_actual\_pca <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_pca, y = unlog\_actual\_pca),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - PCA (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

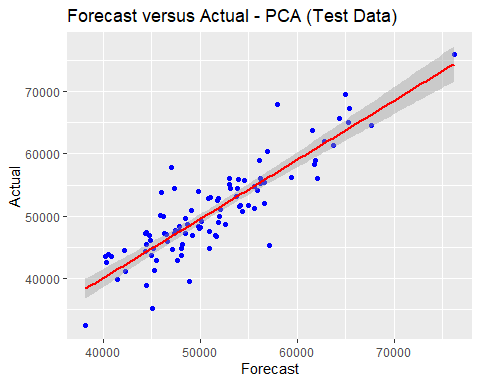


pca\_test\_data <- predict(glm\_pca\_model, test\_data)  
  
RMSE2 <- mean((pca\_test\_data - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.005791636

#Test Data  
unlog\_forecast\_pca <- exp(pca\_test\_data)  
  
unlog\_actual\_pca <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_pca, y = unlog\_actual\_pca),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - PCA (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



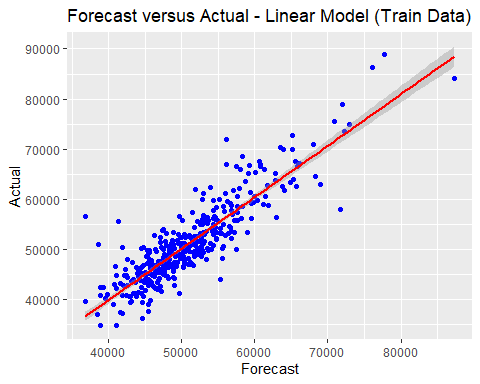
## Simple Linear Regression

earlypay\_lm <- lm(ln\_early\_career\_pay ~ asian\_ratio +   
 ln\_out\_of\_state\_tuition +   
 stem\_percent +   
 ln\_room\_and\_board +   
 black\_ratio +   
 ln\_total\_enrollment +   
 women\_ratio,   
 data = train\_data)  
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 + ln\_total\_enrollment +   
## women\_ratio, data = train\_data)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -0.22804 -0.04682 -0.00576 0.04173 0.42766   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 8.7878428 0.1612431 54.501 < 2e-16 \*\*\*  
## asian\_ratio 0.0080860 0.0010833 7.464 5.68e-13 \*\*\*  
## ln\_out\_of\_state\_tuition 0.1011475 0.0140184 7.215 2.91e-12 \*\*\*  
## stem\_percent 0.0029594 0.0003463 8.546 3.07e-16 \*\*\*  
## ln\_room\_and\_board 0.0880747 0.0221317 3.980 8.26e-05 \*\*\*  
## black\_ratio -0.0004816 0.0002257 -2.134 0.0335 \*   
## ln\_total\_enrollment 0.0261983 0.0039293 6.667 9.11e-11 \*\*\*  
## women\_ratio -0.0019716 0.0003954 -4.986 9.34e-07 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 0.0751 on 383 degrees of freedom  
## Multiple R-squared: 0.7532, Adjusted R-squared: 0.7487   
## F-statistic: 167 on 7 and 383 DF, p-value: < 2.2e-16

#Training Data for Linear Model  
lm\_ep\_train\_data <- predict(earlypay\_lm)  
  
unlog\_forecast\_lm <- exp(lm\_ep\_train\_data)  
  
unlog\_actual\_lm <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_lm, y = unlog\_actual\_lm),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - Linear Model (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

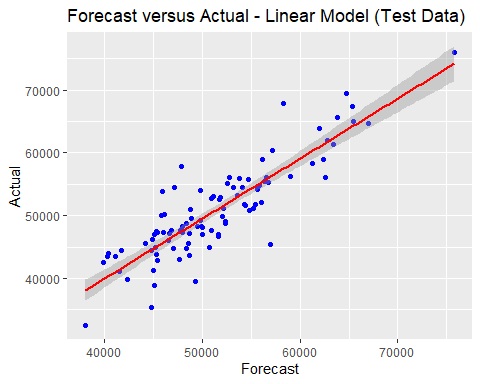


#Testing Data on Linear Model  
lm\_test\_data <- predict(earlypay\_lm, test\_data)  
  
RMSE2 <- mean((lm\_test\_data - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.005810831

#Test Data  
unlog\_forecast\_lm <- exp(lm\_test\_data)  
  
unlog\_actual\_lm <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_lm, y = unlog\_actual\_lm),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - Linear Model (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



## 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 = train\_data,  
 method = "rf",  
 trControl = oob,  
 verbose = FALSE,  
 tuneGrid = rf\_grid)

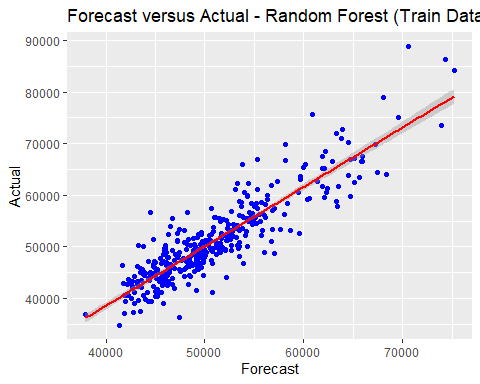
## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range  
  
## Warning in randomForest.default(x, y, mtry = param$mtry, ...): invalid mtry:  
## reset to within valid range

# print results  
rf\_model

## Random Forest   
##   
## 391 samples  
## 8 predictor  
##   
## No pre-processing  
## Resampling results across tuning parameters:  
##   
## mtry RMSE Rsquared   
## 1 0.07467574 0.7509320  
## 2 0.06943366 0.7846728  
## 3 0.06959919 0.7836449  
## 4 0.06980937 0.7823362  
## 5 0.07078309 0.7762218  
## 6 0.07048582 0.7780975  
## 7 0.07100188 0.7748363  
## 8 0.07076411 0.7763418  
## 9 0.07103969 0.7745964  
## 10 0.07071541 0.7766495  
##   
## RMSE was used to select the optimal model using the smallest value.  
## The final value used for the model was mtry = 2.

#Training Data for Random Forest  
random\_forest\_data <- predict(rf\_model)  
  
unlog\_forecast\_rf <- exp(random\_forest\_data)  
  
unlog\_actual\_rf <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_rf, y = unlog\_actual\_rf),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - Random Forest (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

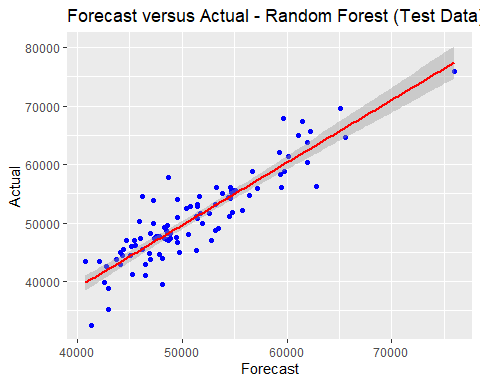


rf\_test <- predict(rf\_model, test\_data)  
  
RMSE2 <- mean((rf\_test - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.00481415

#Test Data  
unlog\_forecast\_rf <- exp(rf\_test)  
  
unlog\_actual\_rf <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_rf, y = unlog\_actual\_rf),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - Random Forest (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



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

## SVM

Preprocessing

set.seed(123)  
college\_dataset\_shrinked <- na.omit(college\_dataset\_shrinked)  
  
  
#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))

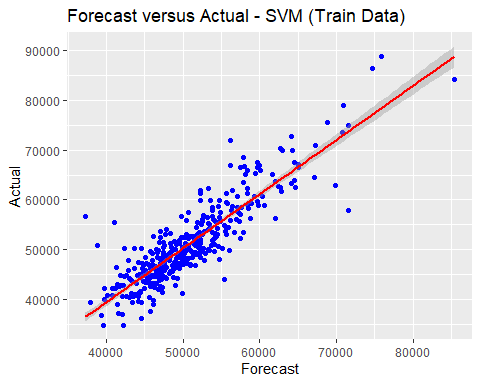
Model

# 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  
## 8 predictor  
##   
## Pre-processing: centered (8), scaled (8)   
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 352, 352, 352, 351, 353, 351, ...   
## Resampling results across tuning parameters:  
##   
## C RMSE Rsquared MAE   
## 0.01 0.07623164 0.7412840 0.05667222  
## 0.05 0.07647969 0.7381777 0.05717968  
## 0.10 0.07662913 0.7379568 0.05733411  
## 0.25 0.07683603 0.7371850 0.05747306  
## 0.50 0.07693462 0.7368597 0.05749893  
## 0.75 0.07687185 0.7370580 0.05747186  
## 1.00 0.07688417 0.7370161 0.05747874  
## 1.25 0.07688296 0.7370413 0.05747725  
## 1.50 0.07689231 0.7369424 0.05748752  
## 1.75 0.07691803 0.7369586 0.05749858  
## 2.00 0.07692059 0.7369546 0.05749360  
## 5.00 0.07694807 0.7367786 0.05749538  
##   
## RMSE was used to select the optimal model using the smallest value.  
## The final value used for the model was C = 0.01.

#Training Data  
svm\_train\_data <- predict(svm\_model\_1)  
  
unlog\_forecast\_svm <- exp(svm\_train\_data)  
  
unlog\_actual\_svm <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_svm, y = unlog\_actual\_svm),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - SVM (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

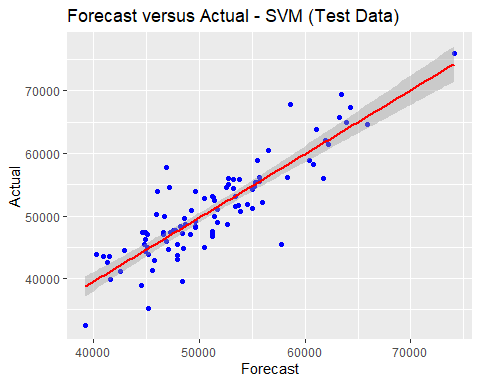


svm\_test\_data <- predict(svm\_model\_1, test\_data)  
  
RMSE2 <- mean((svm\_test\_data - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.00574263

#Test Data  
unlog\_forecast\_svm <- exp(svm\_test\_data)  
  
unlog\_actual\_svm <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_svm, y = unlog\_actual\_svm),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - SVM (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



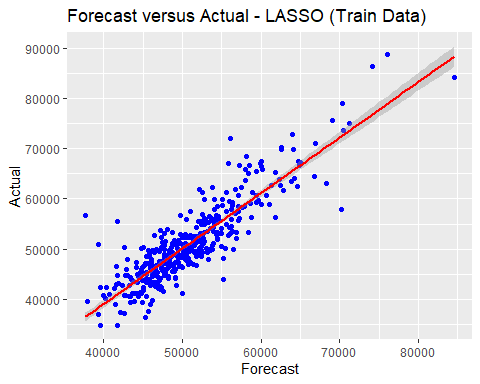
#LASSO

set.seed(981)  
#10 fold CV  
train\_control <- trainControl(method = "cv", number = 10)  
#Grid  
grid <- seq(-2,10,length=100)  
  
lasso\_model <- train(ln\_early\_career\_pay ~ .,  
 data = train\_data,   
 method = "glmnet",   
 trControl = train\_control,  
 metric = "Rsquared",  
 tune\_Grid = expand.grid(alpha = 1, lambda = grid))  
lasso\_model

## glmnet   
##   
## 391 samples  
## 8 predictor  
##   
## No pre-processing  
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 353, 351, 353, 351, 353, 352, ...   
## Resampling results across tuning parameters:  
##   
## alpha lambda RMSE Rsquared MAE   
## 0.10 0.0001917911 0.07610813 0.7507506 0.05700358  
## 0.10 0.0019179111 0.07609265 0.7508827 0.05699603  
## 0.10 0.0191791107 0.07624528 0.7527662 0.05706853  
## 0.55 0.0001917911 0.07612391 0.7505937 0.05702869  
## 0.55 0.0019179111 0.07612207 0.7508329 0.05703123  
## 0.55 0.0191791107 0.07865899 0.7481342 0.05920959  
## 1.00 0.0001917911 0.07613395 0.7505634 0.05703904  
## 1.00 0.0019179111 0.07618074 0.7507277 0.05709597  
## 1.00 0.0191791107 0.08313875 0.7328813 0.06322442  
##   
## Rsquared was used to select the optimal model using the largest value.  
## The final values used for the model were alpha = 0.1 and lambda = 0.01917911.

#Training Data  
lasso\_train\_data <- predict(lasso\_model)  
  
unlog\_forecast\_lasso <- exp(lasso\_train\_data)  
  
unlog\_actual\_lasso <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_lasso, y = unlog\_actual\_lasso),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - LASSO (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

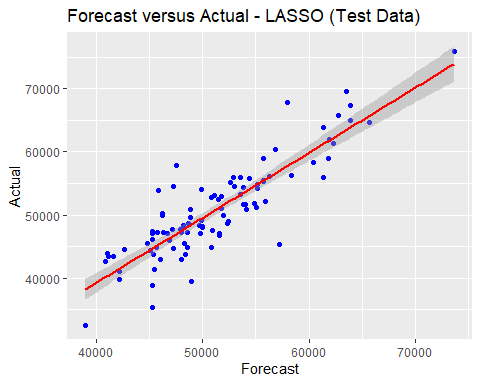


test\_lasso <- predict(lasso\_model, test\_data)  
  
RMSE2 <- mean((test\_lasso - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.005811474

#Test Data  
unlog\_forecast\_lasso <- exp(test\_lasso)  
  
unlog\_actual\_lasso <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_lasso, y = unlog\_actual\_lasso),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - LASSO (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



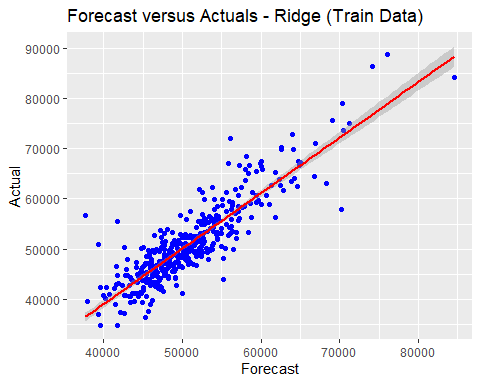
## Ridge Regression

set.seed(981)  
ridge\_model <- train(ln\_early\_career\_pay ~ .,  
 data = train\_data,   
 method = "glmnet",   
 trControl = train\_control,  
 metric = "Rsquared",  
 tune\_Grid = expand.grid(alpha = 0, lambda = grid))  
  
ridge\_model

## glmnet   
##   
## 391 samples  
## 8 predictor  
##   
## No pre-processing  
## Resampling: Cross-Validated (10 fold)   
## Summary of sample sizes: 353, 351, 353, 351, 353, 352, ...   
## Resampling results across tuning parameters:  
##   
## alpha lambda RMSE Rsquared MAE   
## 0.10 0.0001917911 0.07610813 0.7507506 0.05700358  
## 0.10 0.0019179111 0.07609265 0.7508827 0.05699603  
## 0.10 0.0191791107 0.07624528 0.7527662 0.05706853  
## 0.55 0.0001917911 0.07612391 0.7505937 0.05702869  
## 0.55 0.0019179111 0.07612207 0.7508329 0.05703123  
## 0.55 0.0191791107 0.07865899 0.7481342 0.05920959  
## 1.00 0.0001917911 0.07613395 0.7505634 0.05703904  
## 1.00 0.0019179111 0.07618074 0.7507277 0.05709597  
## 1.00 0.0191791107 0.08313875 0.7328813 0.06322442  
##   
## Rsquared was used to select the optimal model using the largest value.  
## The final values used for the model were alpha = 0.1 and lambda = 0.01917911.

#Training Data  
ridge\_train\_data <- predict(ridge\_model)  
  
unlog\_forecast\_ridge <- exp(ridge\_train\_data)  
  
unlog\_actual <- exp(train\_data$ln\_early\_career\_pay)  
  
ggplot(train\_data, aes(x = unlog\_forecast\_ridge, y = unlog\_actual),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actuals - Ridge (Train Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'



test\_ridge\_data <- predict(ridge\_model, test\_data)  
  
RMSE2 <- mean((test\_ridge\_data - test\_data$ln\_early\_career\_pay)^2)   
  
RMSE2

## [1] 0.005811474

#Test Data  
unlog\_forecast\_ridge <- exp(test\_ridge\_data)  
  
unlog\_actual\_ridge <- exp(test\_data$ln\_early\_career\_pay)  
  
ggplot(test\_data, aes(x = unlog\_forecast\_ridge, y = unlog\_actual\_ridge),alpha = 0.6) +   
 geom\_point(color = "Blue") +   
 geom\_smooth(method = lm, color = "Red") +   
 labs(title = "Forecast versus Actual - Ridge (Test Data)", x = "Forecast", y = "Actual")

## `geom\_smooth()` using formula 'y ~ x'

