Trends in NFL Player Representation from SEC Schools (2011–2025)

Omar Sepulveda, Riccardo Gutierrez, Naomi Menard

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Abstract

The NCAA SEC is one of the premier conferences in college football from recent years, but how much is each program represented in the draft? Our data was collected from Pro-Football-Reference.com, which is a database that tracks every NFL player's stats, awards, drafting, and teams during college and NFL. Our analysis examines the number of draftees from each SEC football program for every individual year from 2011 through 2025 and compares trends within the graphs to further analyze the popularity and production of each program (in terms of outputting NFL talent). The results yield two common patterns in the data: either the program shows a quadratic trend that peaks in the late 2010s, or an exponential trend in which draft representation steadily grows from 2011 onward.

Introduction

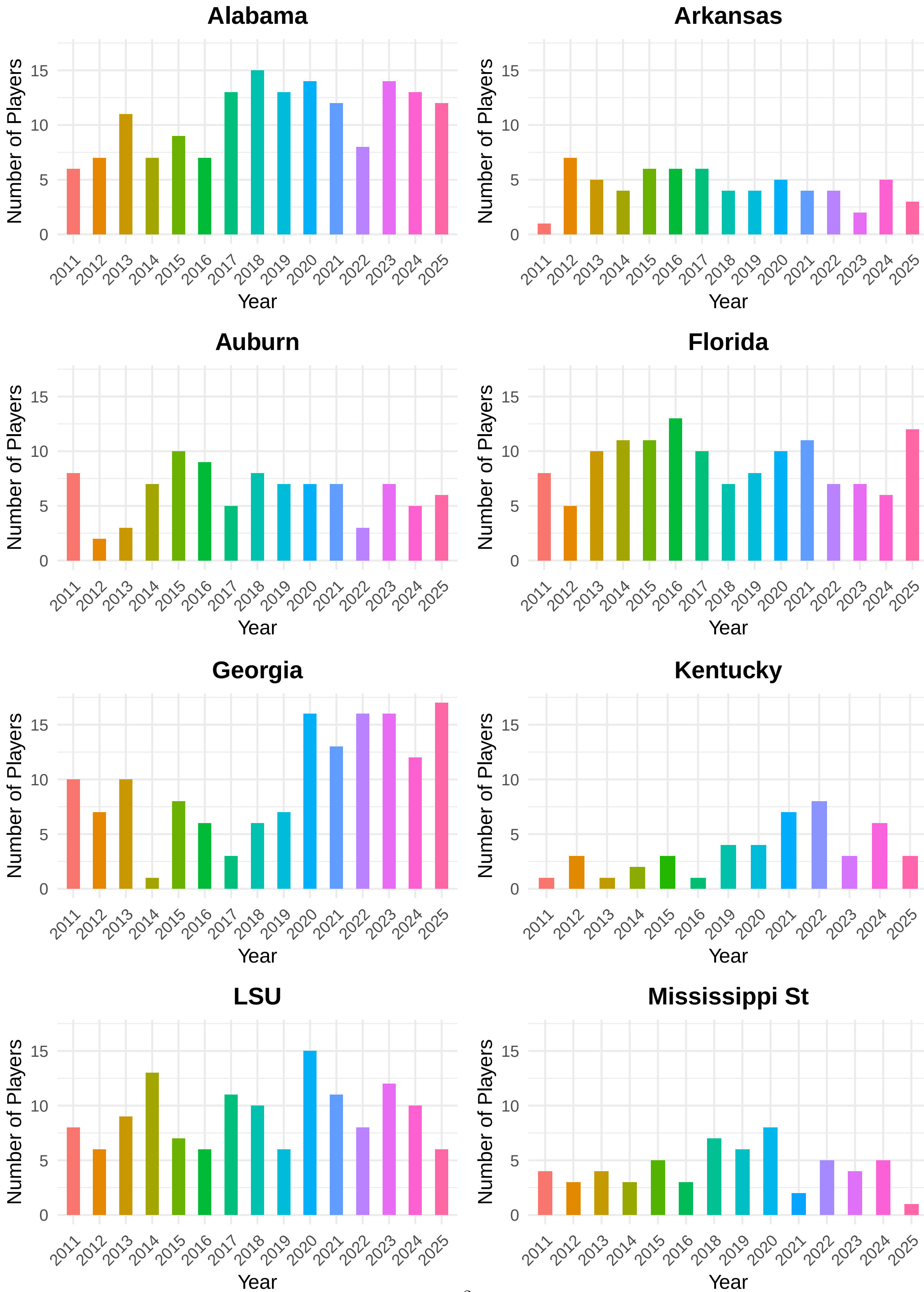
The NFL is the highest viewed sport in the U.S. as it has been nicknamed Americas sport by the media. In turn college football also exudes major viewer retention and support since the players in college are the future of the NFL, also college students love to support their school. Over the last 15 years there has been one NCAA football conference that has prominently outputted the most NFL talent, that being the South Eastern Conference (SEC). Numerous factors apply when it comes to recruitment, such as head coach prestige, academic prestige, and program prestige, all these factors apply but the most important factor is players drafted. Powerhouses like Alabama and Georgia have remained constant machines when fostering NFL talent, but over recent years LSU and Texas have provided incredible NFL talent. From 2011 to the present year 2025 the SEC has remained a constant pool of NFL talent as they are the programs that every high school football player strives to be apart and compete with the talent within the SEC. The trends for each SEC program in terms of draft representation will differ considering that each program competes against all the other programs within the SEC, therefore more recruits will strive to attend the programs that are winning and the programs that create the most NFL talent. Therefore, if we can analyze the trends for each SEC program in terms of draft representation we can comprehend how each program performed during the period 2011-2025 and which programs grew or withered in draft representation.

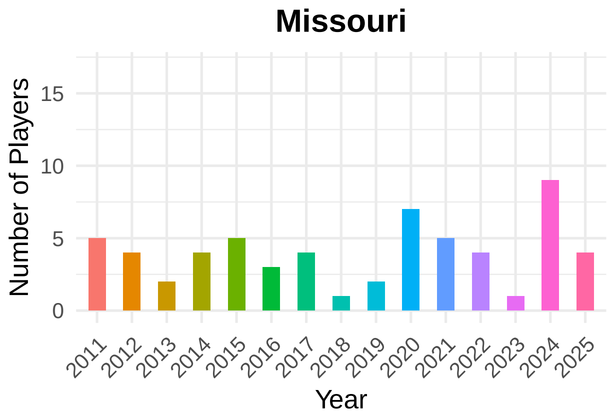
Data

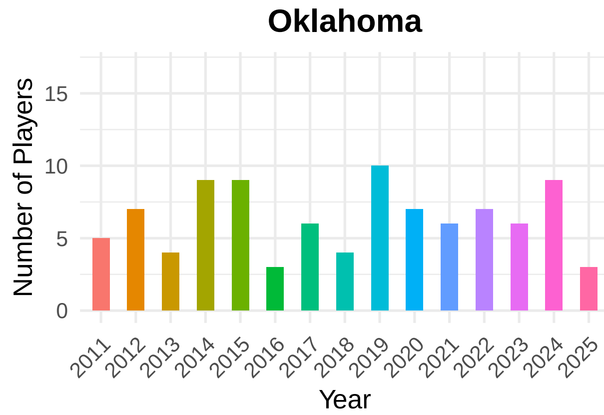
The data set used for this analysis, "College_Dataset.xlsx," contains 1470 observations of information on NFL players and the colleges they attended, with players who began their NFL careers from 2011 to 2025, spanning 14 years. The data was obtained from Pro-Football-Reference, a reliable source that collects and publishes official NFL statistics, including player backgrounds and school affiliations. Relevant variables include each player's name, the college they attended, and the range of years they played in the NFL.

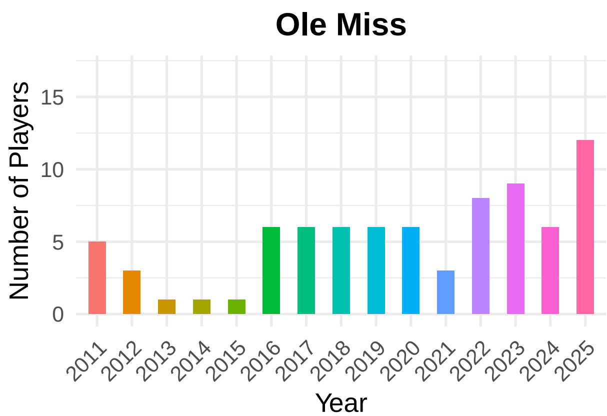
During the cleaning process, unnecessary columns such as AP1, PB, St, wAV, Ht, and Wt were removed, keeping only the relevant variables, while still keeping the 1470 observations in tact. Additionally, since the data set included players from earlier eras, we extracted the starting year from each player's career range and filtered the data to include only those who began their NFL careers in 2011 or later. The observations are not evenly distributed across the years, with the number of new players varying annually based on factors such as undrafted signings. The data includes players from 16 unique schools. The data provides the individual starting year for each player, as the yearly data enables more granular and insightful analysis. The data is entirely real and will not be generated through any randomized simulation.

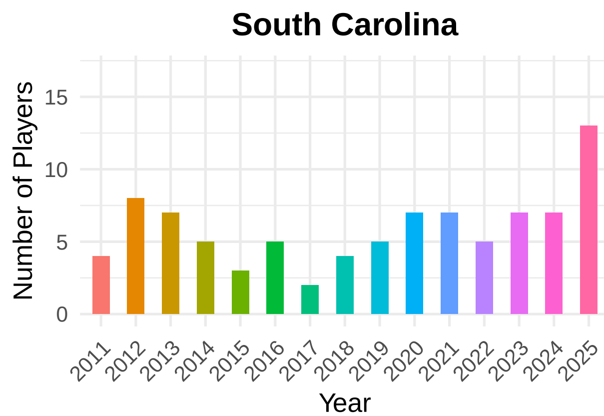
Visualization & Analysis

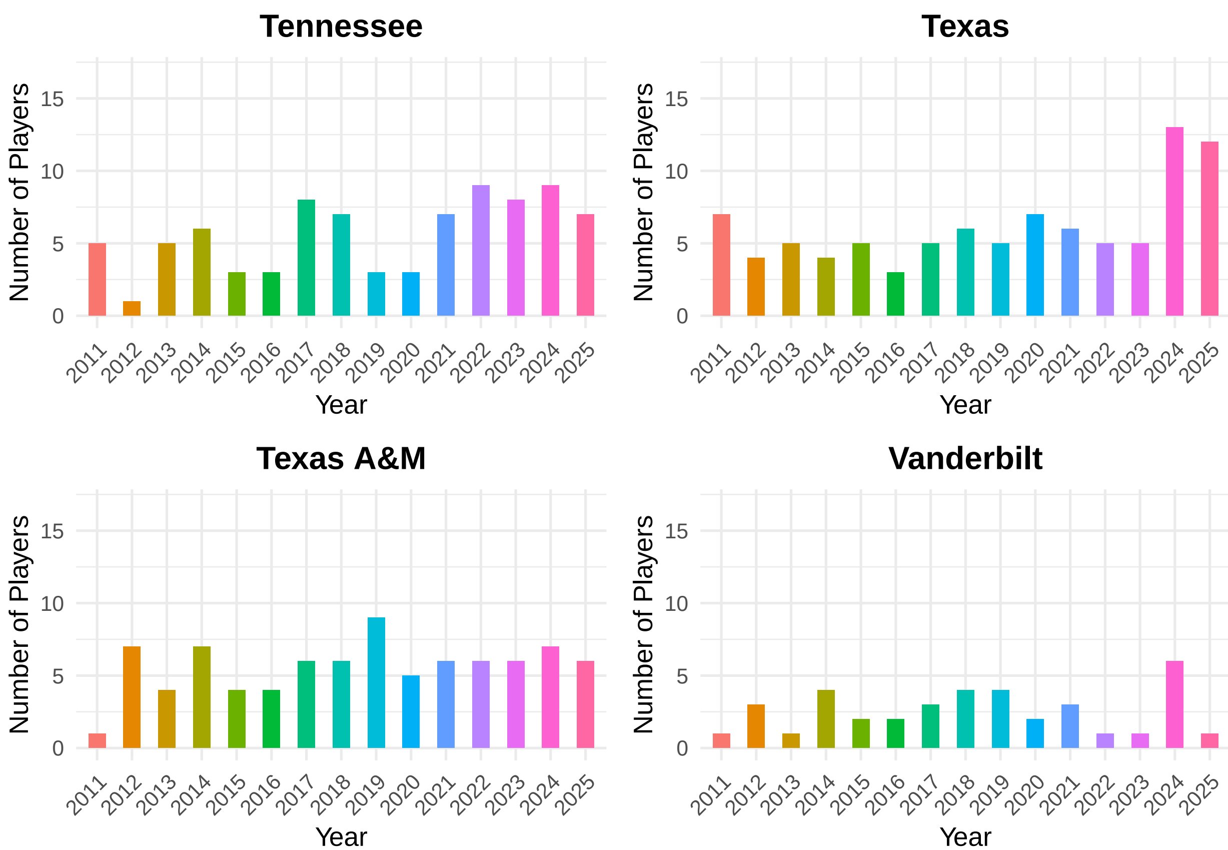



Missouri
Number of Players
0
5
10
15
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
Year


Oklahoma
Number of Players
0
5
10
15
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
Year


Ole Miss
Number of Players
0
5
10
15
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
Year


South Carolina
Number of Players
0
5
10
15
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
Year



Here we have displayed individual bar charts for each SEC school, showing the number of players that were selected in the NFL Draft in each individual year from 2011 through 2025. Based on first impressions, without considering the exact numeric counts, there are clear trends indicating which programs increased or decreased in draft representation over time. Georgia, Florida, Alabama, South Carolina, Ole Miss, and Texas have shown significant growth in draft representation, while many of the other SEC programs have displayed either steady or declining results across the years.

```
## # A tibble: 237 x 3
##    School        Start Players
##    <chr>         <int>   <int>
##  1 Alabama        2011       6
##  2 Alabama        2012       7
##  3 Alabama        2013      11
##  4 Alabama        2014       7
##  5 Alabama        2015       9
##  6 Alabama        2016       7
##  7 Alabama        2017      13
##  8 Alabama        2018      15
##  9 Alabama        2019      13
## 10 Alabama        2020      14
## 11 Alabama        2021      12
## 12 Alabama        2022       8
## 13 Alabama        2023      14
## 14 Alabama        2024      13
## 15 Alabama        2025      12
## 16 Arkansas       2011       1
```

```
##   17 Arkansas        2012        7
##   18 Arkansas        2013        5
##   19 Arkansas        2014        4
##   20 Arkansas        2015        6
##   21 Arkansas        2016        6
##   22 Arkansas        2017        6
##   23 Arkansas        2018        4
##   24 Arkansas        2019        4
##   25 Arkansas        2020        5
##   26 Arkansas        2021        4
##   27 Arkansas        2022        4
##   28 Arkansas        2023        2
##   29 Arkansas        2024        5
##   30 Arkansas        2025        3
##   31 Auburn          2011        8
##   32 Auburn          2012        2
##   33 Auburn          2013        3
##   34 Auburn          2014        7
##   35 Auburn          2015       10
##   36 Auburn          2016        9
##   37 Auburn          2017        5
##   38 Auburn          2018        8
##   39 Auburn          2019        7
##   40 Auburn          2020        7
##   41 Auburn          2021        7
##   42 Auburn          2022        3
##   43 Auburn          2023        7
##   44 Auburn          2024        5
##   45 Auburn          2025        6
##   46 Florida         2011        8
##   47 Florida         2012        5
##   48 Florida         2013       10
##   49 Florida         2014       11
##   50 Florida         2015       11
##   51 Florida         2016       13
##   52 Florida         2017       10
##   53 Florida         2018        7
##   54 Florida         2019        8
##   55 Florida         2020       10
##   56 Florida         2021       11
##   57 Florida         2022        7
##   58 Florida         2023        7
##   59 Florida         2024        6
##   60 Florida         2025       12
##   61 Georgia         2011       10
##   62 Georgia         2012        7
##   63 Georgia         2013       10
##   64 Georgia         2014        1
##   65 Georgia         2015        8
##   66 Georgia         2016        6
##   67 Georgia         2017        3
##   68 Georgia         2018        6
##   69 Georgia         2019        7
##   70 Georgia         2020       16
```

```
##  71 Georgia         2021      13
##  72 Georgia         2022      16
##  73 Georgia         2023      16
##  74 Georgia         2024      12
##  75 Georgia         2025      17
##  76 Kentucky        2011       1
##  77 Kentucky        2012       3
##  78 Kentucky        2013       1
##  79 Kentucky        2014       2
##  80 Kentucky        2015       3
##  81 Kentucky        2016       1
##  82 Kentucky        2019       4
##  83 Kentucky        2020       4
##  84 Kentucky        2021       7
##  85 Kentucky        2022       8
##  86 Kentucky        2023       3
##  87 Kentucky        2024       6
##  88 Kentucky        2025       3
##  89 LSU             2011       8
##  90 LSU             2012       6
##  91 LSU             2013       9
##  92 LSU             2014      13
##  93 LSU             2015       7
##  94 LSU             2016       6
##  95 LSU             2017      11
##  96 LSU             2018      10
##  97 LSU             2019       6
##  98 LSU             2020      15
##  99 LSU             2021      11
## 100 LSU             2022       8
## 101 LSU             2023      12
## 102 LSU             2024      10
## 103 LSU             2025       6
## 104 Mississippi St  2011       4
## 105 Mississippi St  2012       3
## 106 Mississippi St  2013       4
## 107 Mississippi St  2014       3
## 108 Mississippi St  2015       5
## 109 Mississippi St  2016       3
## 110 Mississippi St  2018       7
## 111 Mississippi St  2019       6
## 112 Mississippi St  2020       8
## 113 Mississippi St  2021       2
## 114 Mississippi St  2022       5
## 115 Mississippi St  2023       4
## 116 Mississippi St  2024       5
## 117 Mississippi St  2025       1
## 118 Missouri        2011       5
## 119 Missouri        2012       4
## 120 Missouri        2013       2
## 121 Missouri        2014       4
## 122 Missouri        2015       5
## 123 Missouri        2016       3
## 124 Missouri        2017       4
```

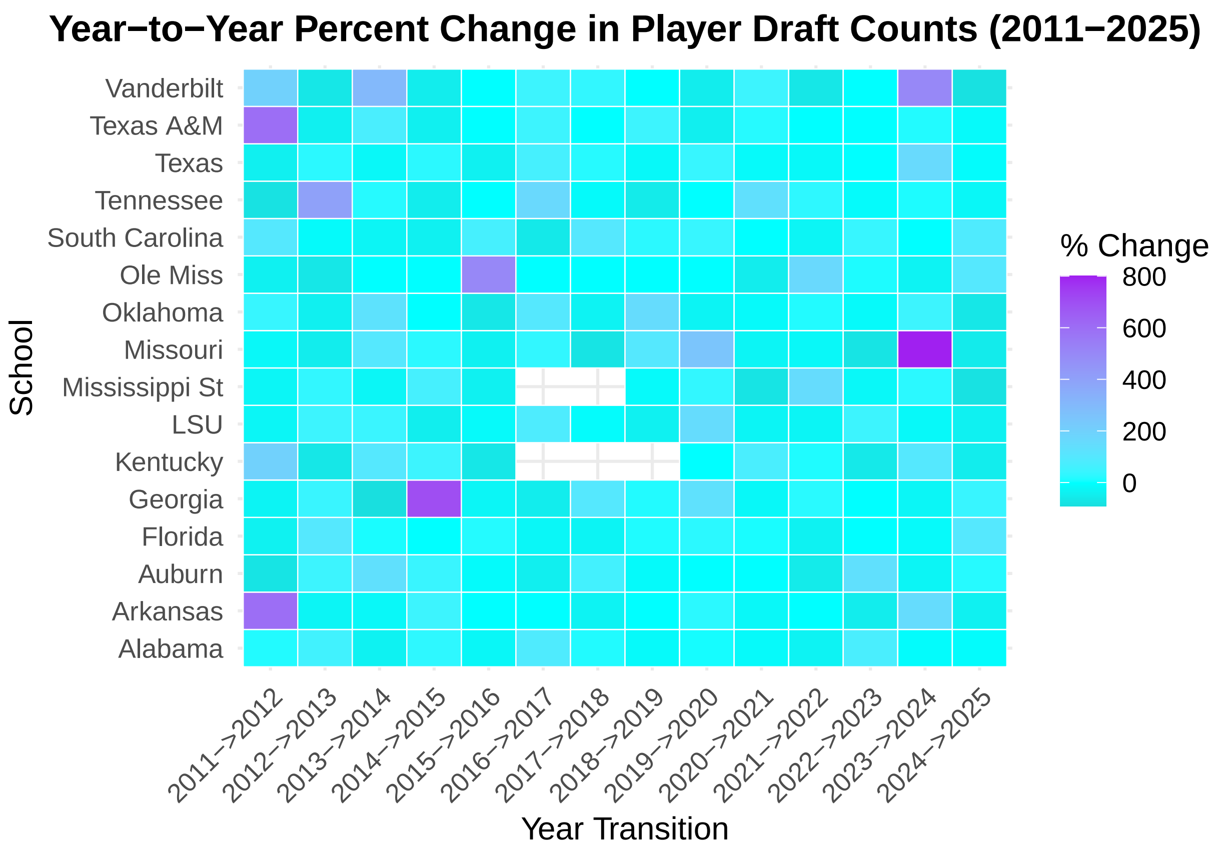
```
## 125 Missouri        2018       1
## 126 Missouri        2019       2
## 127 Missouri        2020       7
## 128 Missouri        2021       5
## 129 Missouri        2022       4
## 130 Missouri        2023       1
## 131 Missouri        2024       9
## 132 Missouri        2025       4
## 133 Oklahoma        2011       5
## 134 Oklahoma        2012       7
## 135 Oklahoma        2013       4
## 136 Oklahoma        2014       9
## 137 Oklahoma        2015       9
## 138 Oklahoma        2016       3
## 139 Oklahoma        2017       6
## 140 Oklahoma        2018       4
## 141 Oklahoma        2019      10
## 142 Oklahoma        2020       7
## 143 Oklahoma        2021       6
## 144 Oklahoma        2022       7
## 145 Oklahoma        2023       6
## 146 Oklahoma        2024       9
## 147 Oklahoma        2025       3
## 148 Ole Miss        2011       5
## 149 Ole Miss        2012       3
## 150 Ole Miss        2013       1
## 151 Ole Miss        2014       1
## 152 Ole Miss        2015       1
## 153 Ole Miss        2016       6
## 154 Ole Miss        2017       6
## 155 Ole Miss        2018       6
## 156 Ole Miss        2019       6
## 157 Ole Miss        2020       6
## 158 Ole Miss        2021       3
## 159 Ole Miss        2022       8
## 160 Ole Miss        2023       9
## 161 Ole Miss        2024       6
## 162 Ole Miss        2025      12
## 163 South Carolina  2011       4
## 164 South Carolina  2012       8
## 165 South Carolina  2013       7
## 166 South Carolina  2014       5
## 167 South Carolina  2015       3
## 168 South Carolina  2016       5
## 169 South Carolina  2017       2
## 170 South Carolina  2018       4
## 171 South Carolina  2019       5
## 172 South Carolina  2020       7
## 173 South Carolina  2021       7
## 174 South Carolina  2022       5
## 175 South Carolina  2023       7
## 176 South Carolina  2024       7
## 177 South Carolina  2025      13
## 178 Tennessee       2011       5
```

```
## 179 Tennessee       2012        1
## 180 Tennessee       2013        5
## 181 Tennessee       2014        6
## 182 Tennessee       2015        3
## 183 Tennessee       2016        3
## 184 Tennessee       2017        8
## 185 Tennessee       2018        7
## 186 Tennessee       2019        3
## 187 Tennessee       2020        3
## 188 Tennessee       2021        7
## 189 Tennessee       2022        9
## 190 Tennessee       2023        8
## 191 Tennessee       2024        9
## 192 Tennessee       2025        7
## 193 Texas           2011        7
## 194 Texas           2012        4
## 195 Texas           2013        5
## 196 Texas           2014        4
## 197 Texas           2015        5
## 198 Texas           2016        3
## 199 Texas           2017        5
## 200 Texas           2018        6
## 201 Texas           2019        5
## 202 Texas           2020        7
## 203 Texas           2021        6
## 204 Texas           2022        5
## 205 Texas           2023        5
## 206 Texas           2024       13
## 207 Texas           2025       12
## 208 Texas A&M       2011        1
## 209 Texas A&M       2012        7
## 210 Texas A&M       2013        4
## 211 Texas A&M       2014        7
## 212 Texas A&M       2015        4
## 213 Texas A&M       2016        4
## 214 Texas A&M       2017        6
## 215 Texas A&M       2018        6
## 216 Texas A&M       2019        9
## 217 Texas A&M       2020        5
## 218 Texas A&M       2021        6
## 219 Texas A&M       2022        6
## 220 Texas A&M       2023        6
## 221 Texas A&M       2024        7
## 222 Texas A&M       2025        6
## 223 Vanderbilt      2011        1
## 224 Vanderbilt      2012        3
## 225 Vanderbilt      2013        1
## 226 Vanderbilt      2014        4
## 227 Vanderbilt      2015        2
## 228 Vanderbilt      2016        2
## 229 Vanderbilt      2017        3
## 230 Vanderbilt      2018        4
## 231 Vanderbilt      2019        4
## 232 Vanderbilt      2020        2
```

```
## 233 Vanderbilt      2021       3
## 234 Vanderbilt      2022       1
## 235 Vanderbilt      2023       1
## 236 Vanderbilt      2024       6
## 237 Vanderbilt      2025       1

## # A tibble: 16 x 15
## # Groups:   School [16]
##    School          `2011→2012` `2012→2013` `2013→2014` `2014→2015` `2015→2016`
##    <chr>                 <dbl>       <dbl>       <dbl>       <dbl>       <dbl>
##  1 Alabama                16.7        57.1       -36.4        28.6       -22.2
##  2 Arkansas              600         -28.6       -20          50           0
##  3 Auburn                -75          50         133.         42.9       -10
##  4 Florida               -37.5       100          10           0          18.2
##  5 Georgia               -30          42.9       -90         700         -25
##  6 Kentucky              200         -66.7       100          50         -66.7
##  7 LSU                   -25          50          44.4       -46.2       -14.3
##  8 Mississippi St        -25          33.3       -25          66.7       -40
##  9 Missouri              -20         -50         100          25         -40
## 10 Oklahoma               40         -42.9       125           0         -66.7
## 11 Ole Miss              -40         -66.7         0           0         500
## 12 South Carolina        100         -12.5       -28.6       -40          66.7
## 13 Tennessee             -80         400          20         -50           0
## 14 Texas                 -42.9        25         -20          25         -40
## 15 Texas A&M             600         -42.9        75         -42.9         0
## 16 Vanderbilt            200         -66.7       300         -50           0
##    `2016→2017` `2017→2018` `2018→2019` `2019→2020` `2020→2021` `2021→2022`
##          <dbl>       <dbl>       <dbl>       <dbl>       <dbl>       <dbl>
##  1        85.7       15.4        -13.3        7.69       -14.3       -33.3
##  2         0        -33.3          0         25          -20           0
##  3       -44.4       60          -12.5        0            0         -57.1
##  4       -23.1      -30           14.3       25           10         -36.4
##  5       -50        100           16.7      129.         -18.8        23.1
##  6        NA         NA           NA          0           75          14.3
##  7        83.3       -9.09       -40        150          -26.7       -27.3
##  8        NA         NA          -14.3       33.3        -75         150
##  9        33.3      -75          100        250          -28.6       -20
## 10       100        -33.3        150        -30          -14.3        16.7
## 11         0          0            0          0          -50         167.
## 12       -60        100           25         40            0         -28.6
## 13       167.       -12.5        -57.1        0          133.         28.6
## 14        66.7       20          -16.7       40          -14.3       -16.7
## 15        50          0           50        -44.4         20           0
## 16        50         33.3          0        -50           50         -66.7
##    `2022→2023` `2023→2024` `2024→2025`
##          <dbl>       <dbl>       <dbl>
##  1        75         -7.14       -7.69
##  2       -50        150         -40
##  3       133.       -28.6        20
##  4         0        -14.3       100
##  5         0        -25          41.7
##  6       -62.5      100         -50
##  7        50        -16.7       -40
##  8       -20         25         -80
```

```
## 9       -75       800       -55.6
## 10      -14.3      50       -66.7
## 11       12.5     -33.3     100
## 12       40         0        85.7
## 13      -11.1      12.5     -22.2
## 14        0       160        -7.69
## 15        0        16.7     -14.3
## 16        0       500       -83.3
```



These preliminary visualizations support our future analysis by allowing us to compare the number of NFL players produced by various SEC colleges across different time periods. By examining the bar plots, we can identify early patterns of growth or decline in player representation for each school. In later stages of the analysis, we will compare these bar plots in greater detail to draw conclusions about which colleges have shown the most progress or decline in producing NFL players over the years. Further visualizations we discussed implementing include histograms that display the trends for each collegiate program within the conference during the year 2011-2025 time period.

Analysis

For the analysis, we plan to use descriptive statistics and visual models to track changes in the number of NFL players from each SEC school over the three time periods. We'll look at the overall trend for each school using a simple linear regression, which will help show whether the number of NFL players from that school is going up or down over time. We'll also use percentage change calculations to measure growth rates and rank the schools based on overall gains or declines. These methods should make it clear which schools have built a stronger NFL presence over time. We expect that powerhouse programs like Alabama and Georgia will show a steady growth, while schools like Vanderbilt and Auburn may show slight growth or even a decline. For further analysis discussing the histograms hopefully the year by year displays for each collegiate program in the conference will further contribute to our theory of steady growth for the elite programs while the lesser known programs won't display such trends. We expect to find that most if not all programs within the conference will display some form of growth within the 2011-2025 time period and then a variation of growth and decay during the covid year as not all programs held the same appeal during the pandemic. With big name schools such as Alabama, Georgia and Texas will display steady growth and the values will remain relatively high compared to lesser known schools such as Auburn and Vanderbilt.

Contributions

Omar Sepulveda: Gathered data sets, completed data section, code used to clean data set, code for the visuals, completed analysis section, and wrote step by step process in README.md

Riccardo Gutierrez: Gathered data sets, completed abstract section, and contributed to visualization and analysis section.

Naomi Menard: Completed introduction, gathered data sets, contributed to data, visuals/code , and analysis section.

```r
source("06_poisson_model.R")
```

```
##
## ======================================
## Poisson Model for School: Alabama
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -78.70693   37.15994  -2.118   0.0342 *
## Start         0.04017    0.01841   2.182   0.0291 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 12.9544  on 14  degrees of freedom
## Residual deviance:  8.1484  on 13  degrees of freedom
## AIC: 74.926
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Arkansas
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
```

```
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) 39.20161   57.59650   0.681    0.496
## Start       -0.01869    0.02855  -0.655    0.513
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 9.2735  on 14  degrees of freedom
## Residual deviance: 8.8438  on 13  degrees of freedom
## AIC: 62
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Auburn
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept)  5.28548   48.17515   0.110    0.913
## Start       -0.00171    0.02387  -0.072    0.943
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 12.977  on 14  degrees of freedom
## Residual deviance: 12.972  on 13  degrees of freedom
## AIC: 71.313
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Florida
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept)  6.17915   40.05169   0.154    0.877
## Start       -0.00197    0.01985  -0.099    0.921
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 8.9560  on 14  degrees of freedom
## Residual deviance: 8.9462  on 13  degrees of freedom
## AIC: 73.36
##
## Number of Fisher Scoring iterations: 4
```

```
##
##
## ======================================
## Poisson Model for School: Georgia
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -153.05739   39.70222  -3.855 0.000116 ***
## Start          0.07695    0.01966   3.914 9.07e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 40.686  on 14  degrees of freedom
## Residual deviance: 24.855  on 13  degrees of freedom
## AIC: 88.325
##
## Number of Fisher Scoring iterations: 5
##
##
## ======================================
## Poisson Model for School: Kentucky
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -180.33008   68.94369  -2.616  0.00891 **
## Start          0.08994    0.03413   2.635  0.00841 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 17.0752  on 12  degrees of freedom
## Residual deviance:  9.6551  on 11  degrees of freedom
## AIC: 52.171
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: LSU
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
```

```
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -21.29563   39.79504  -0.535    0.593
## Start         0.01165    0.01972   0.591    0.555
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 12.018  on 14  degrees of freedom
## Residual deviance: 11.668  on 13  degrees of freedom
## AIC: 76.161
##
## Number of Fisher Scoring iterations: 4
##
##
## =====================================
## Poisson Model for School: Mississippi St
## =====================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -1.439230  58.379064  -0.025     0.98
## Start        0.001434   0.028928   0.050     0.96
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 11.482  on 13  degrees of freedom
## Residual deviance: 11.480  on 12  degrees of freedom
## AIC: 60.711
##
## Number of Fisher Scoring iterations: 5
##
##
## =====================================
## Poisson Model for School: Missouri
## =====================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -41.93586   60.46835  -0.694    0.488
## Start         0.02147    0.02996   0.717    0.474
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 16.309  on 14  degrees of freedom
## Residual deviance: 15.794  on 13  degrees of freedom
## AIC: 66.646
##
```

```
## Number of Fisher Scoring iterations: 5
##
##
## ======================================
## Poisson Model for School: Oklahoma
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -1.568147  47.922607  -0.033    0.974
## Start        0.001692   0.023747   0.071    0.943
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 11.685  on 14  degrees of freedom
## Residual deviance: 11.680  on 13  degrees of freedom
## AIC: 70.388
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Ole Miss
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -198.40776   55.50177  -3.575 0.000350 ***
## Start          0.09910    0.02748   3.606 0.000311 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 28.242  on 14  degrees of freedom
## Residual deviance: 14.520  on 13  degrees of freedom
## AIC: 68.257
##
## Number of Fisher Scoring iterations: 5
##
##
## ======================================
## Poisson Model for School: South Carolina
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
```

```
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -91.29226   50.12543  -1.821   0.0686 .
## Start         0.04611    0.02483   1.857   0.0633 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 15.152  on 14  degrees of freedom
## Residual deviance: 11.661  on 13  degrees of freedom
## AIC: 69.112
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Tennessee
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -123.64827   52.10019  -2.373   0.0176 *
## Start          0.06211    0.02580   2.407   0.0161 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 18.002  on 14  degrees of freedom
## Residual deviance: 12.083  on 13  degrees of freedom
## AIC: 68.075
##
## Number of Fisher Scoring iterations: 4
##
##
## ======================================
## Poisson Model for School: Texas
## ======================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -122.15516   49.75994  -2.455   0.0141 *
## Start          0.06141    0.02464   2.492   0.0127 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
```

```
##
##     Null deviance: 15.4250  on 14  degrees of freedom
## Residual deviance:  9.0827  on 13  degrees of freedom
## AIC: 67.172
##
## Number of Fisher Scoring iterations: 4
##
##
## =====================================
## Poisson Model for School: Texas A&M
## =====================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -65.49009   51.29694  -1.277    0.202
## Start         0.03330    0.02541   1.310    0.190
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 10.2256  on 14  degrees of freedom
## Residual deviance:  8.4975  on 13  degrees of freedom
## AIC: 65.196
##
## Number of Fisher Scoring iterations: 4
##
##
## =====================================
## Poisson Model for School: Vanderbilt
## =====================================
##
## Call:
## glm(formula = count ~ Start, family = "poisson", data = .x)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -27.54289   75.86504  -0.363    0.717
## Start         0.01411    0.03759   0.375    0.707
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 12.220  on 14  degrees of freedom
## Residual deviance: 12.079  on 13  degrees of freedom
## AIC: 56.351
##
## Number of Fisher Scoring iterations: 5
```

```r
ggplot(yearly, aes(x = Start, y = Players)) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "lm", se = FALSE, color = "red") +
  facet_wrap(~ School, scales = "free_y", ncol = 4) +
  labs(
```

```
    title = "Regression Trends in NFL Player Counts (2011-2025)",
    x = "Year",
    y = "Player Counts"
  ) +
  theme_minimal(base_size = 12)
```

```
## `geom_smooth()` using formula = 'y ~ x'
```