

BATTER UP

Brent Rossin (Giancarlo Stanton's Agent)

How much \$\$\$ should you be making?

| Standard Batting | | Show Minors | | Games by Position | | Share & more ▾ | | Glossary | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----|---------------------|--------------------|-------------------|------------|----------------|------------|-----------|------------|------------|-----------|-----------|------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-----------|-----------|----------|-----------|-----------|----|-----|----------------------------------|--------|
| Year | Age | Tm | Lg | G | PA | AB | R | H | 2B | 3B | HR | RBI | SB | CS | BB | SO | BA | OBP | SLG | OPS | OPS+ | TB | GDP | HBP | SH | SF | IBB | Pos | Awards |
| 2010 | 20 | FLA | NL | 100 | 396 | 359 | 45 | 93 | 21 | 1 | 22 | 59 | 5 | 2 | 34 | 123 | .259 | .326 | .507 | .833 | 118 | 182 | 7 | 2 | 0 | 1 | 6 | 9 | |
| 2011 | 21 | FLA | NL | 150 | 601 | 516 | 79 | 135 | 30 | 5 | 34 | 87 | 5 | 5 | 70 | 166 | .262 | .356 | .537 | .893 | 141 | 277 | 11 | 9 | 0 | 6 | 6 | *9/8D MVP-23 | |
| 2012 | 22 | MIA | NL | 123 | 501 | 449 | 75 | 130 | 30 | 1 | 37 | 86 | 6 | 2 | 46 | 143 | .290 | .361 | .608 | .969 | 155 | 273 | 5 | 5 | 0 | 1 | 9 | *9/D AS,MVP-24 | |
| 2013 | 23 | MIA | NL | 116 | 504 | 425 | 62 | 106 | 26 | 0 | 24 | 62 | 1 | 0 | 74 | 140 | .249 | .365 | .480 | .845 | 131 | 204 | 10 | 4 | 0 | 1 | 5 | *9 | |
| 2014 | 24 | MIA | NL | 145 | 638 | 539 | 89 | 155 | 31 | 1 | 37 | 105 | 13 | 1 | 94 | 170 | .288 | .395 | .555 | .950 | 164 | 299 | 16 | 3 | 0 | 2 | 24 | *9/D AS,MVP-2,SS | |
| 2015 | 25 | MIA | NL | 74 | 318 | 279 | 47 | 74 | 12 | 1 | 27 | 67 | 4 | 2 | 34 | 95 | .265 | .346 | .606 | .952 | 159 | 169 | 5 | 2 | 0 | 3 | 6 | 9/D AS | |
| 2016 | 26 | MIA | NL | 119 | 470 | 413 | 56 | 99 | 20 | 1 | 27 | 74 | 0 | 0 | 50 | 140 | .240 | .326 | .489 | .815 | 120 | 202 | 6 | 4 | 0 | 2 | 5 | 9/D | |
| 2017 | 27 | MIA | NL | 159 | 692 | 597 | 123 | 168 | 32 | 0 | 59 | 132 | 2 | 2 | 85 | 163 | .281 | .376 | .631 | 1.007 | 168 | 377 | 13 | 7 | 0 | 3 | 13 | *9/D AS,MVP-1,SS | |
| 2018 | 28 | NYY | AL | 94 | 416 | 371 | 58 | 103 | 18 | 1 | 23 | 55 | 3 | 0 | 35 | 130 | .278 | .346 | .518 | .864 | 130 | 192 | 10 | 6 | 0 | 4 | 3 | D79 | |
| 9 Yrs | | 1080 | 4536 | 3948 | 634 | 1063 | 220 | 11 | 290 | 727 | 39 | 14 | 522 | 1270 | .269 | .359 | .551 | .910 | 145 | 2175 | 83 | 42 | 0 | 23 | 77 | | | | |
| 162 Game Avg. | | 162 | 680 | 592 | 95 | 159 | 33 | 2 | 44 | 109 | 6 | 2 | 78 | 191 | .269 | .359 | .551 | .910 | 145 | 326 | 12 | 6 | 0 | 3 | 12 | | | | |
| MIA (8 yrs) | | 986 | 4120 | 3577 | 576 | 960 | 202 | 10 | 267 | 672 | 36 | 14 | 487 | 1140 | .268 | .360 | .554 | .914 | 146 | 1983 | 73 | 36 | 0 | 19 | 74 | | | | |
| NYY (1 yr) | | 94 | 416 | 371 | 58 | 103 | 18 | 1 | 23 | 55 | 3 | 0 | 35 | 130 | .278 | .346 | .518 | .864 | 130 | 192 | 10 | 6 | 0 | 4 | 3 | | | | |
| NL (8 yrs) | | 986 | 4120 | 3577 | 576 | 960 | 202 | 10 | 267 | 672 | 36 | 14 | 487 | 1140 | .268 | .360 | .554 | .914 | 146 | 1983 | 73 | 36 | 0 | 19 | 74 | | | | |
| AL (1 yr) | | 94 | 416 | 371 | 58 | 103 | 18 | 1 | 23 | 55 | 3 | 0 | 35 | 130 | .278 | .346 | .518 | .864 | 130 | 192 | 10 | 6 | 0 | 4 | 3 | | | | |

- Scrapped using BeautifulSoup and Selenium

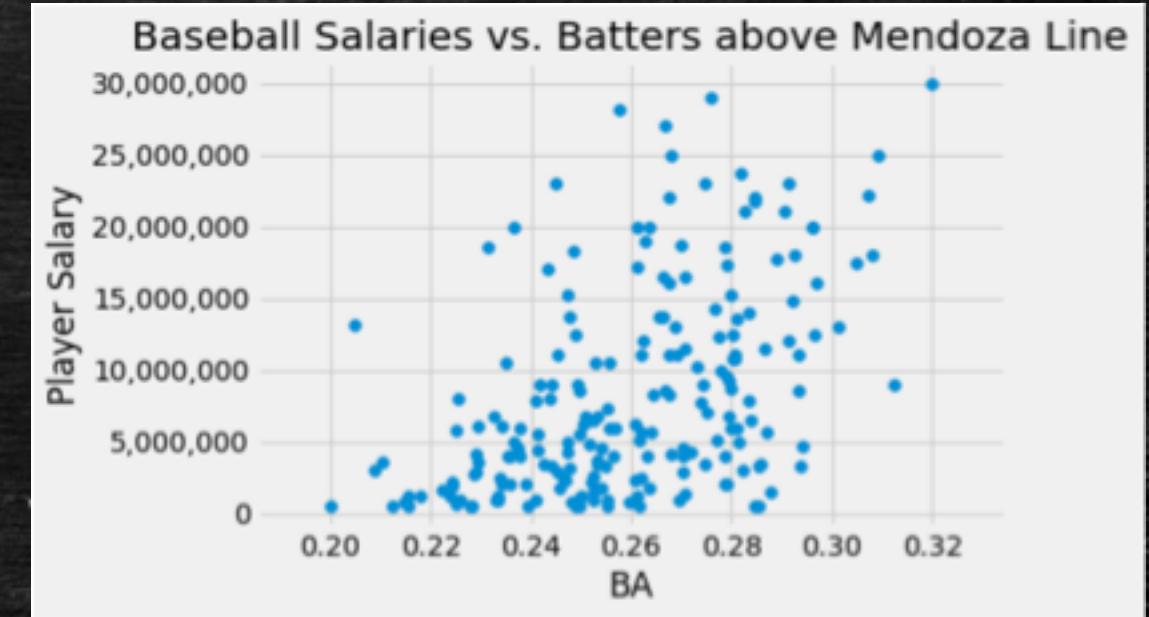
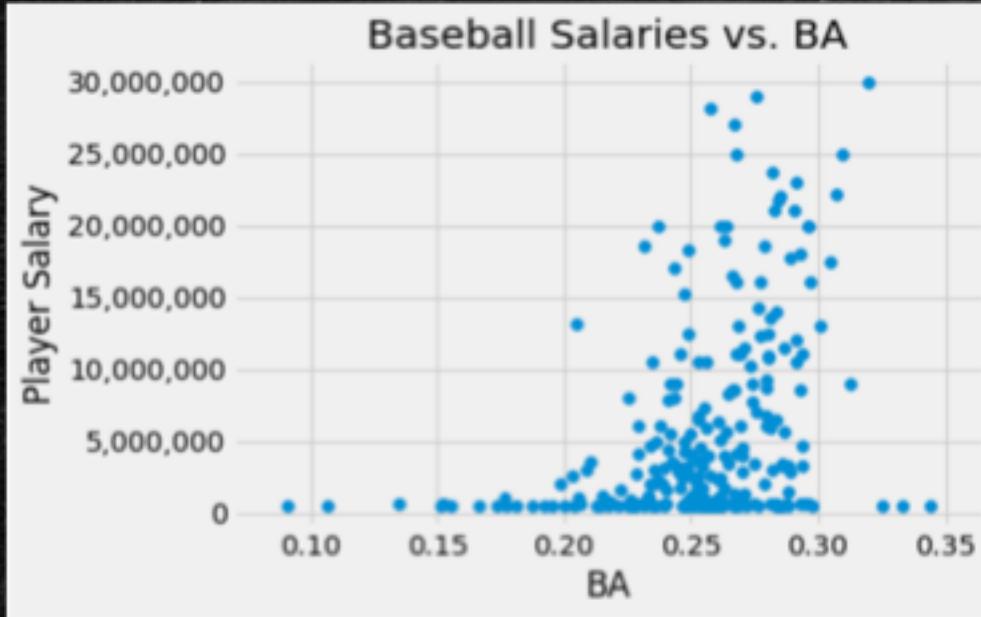
Statistics to look at

- 2018 Salaries
- 2011-2017 batting statistics

| Year | Age | Tm | Salary |
|------|-----|------------------|--------------|
| 2011 | 21 | Florida Marlins | \$416,000 |
| 2012 | 22 | Miami Marlins | \$480,000 |
| 2013 | 23 | Miami Marlins | \$537,000 |
| 2014 | 24 | Miami Marlins | \$6,500,000 |
| 2015 | 25 | Miami Marlins | \$6,500,000 |
| 2016 | 26 | Miami Marlins | \$9,000,000 |
| 2017 | 27 | Miami Marlins | \$14,500,000 |
| 2018 | 28 | New York Yankees | \$25,000,000 |

| Year | Age | Tm | Lg | G | PA | AB | R | H | 2B | 3B | HR | RBI | SB | CS | BB |
|------|-----|-----|----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|
| 2010 | 20 | FLA | NL | 100 | 396 | 359 | 45 | 93 | 21 | 1 | 22 | 59 | 5 | 2 | 34 |
| 2011 | 21 | FLA | NL | 150 | 601 | 516 | 79 | 135 | 30 | 5 | 34 | 87 | 5 | 5 | 70 |
| 2012 | 22 | MIA | NL | 123 | 501 | 449 | 75 | 130 | 30 | 1 | 37 | 86 | 6 | 2 | 46 |
| 2013 | 23 | MIA | NL | 116 | 504 | 425 | 62 | 106 | 26 | 0 | 24 | 62 | 1 | 0 | 74 |
| 2014 | 24 | MIA | NL | 145 | 638 | 539 | 89 | 155 | 31 | 1 | 37 | 105 | 13 | 1 | 94 |
| 2015 | 25 | MIA | NL | 74 | 318 | 279 | 47 | 74 | 12 | 1 | 27 | 67 | 4 | 2 | 34 |
| 2016 | 26 | MIA | NL | 119 | 470 | 413 | 56 | 99 | 20 | 1 | 27 | 74 | 0 | 0 | 50 |
| 2017 | 27 | MIA | NL | 159 | 692 | 597 | 123 | 168 | 32 | 0 | 59 | 132 | 2 | 2 | 85 |
| 2018 | 28 | NYY | AL | 94 | 416 | 371 | 58 | 103 | 18 | 1 | 23 | 55 | 3 | 0 | 35 |

Picking the right players to model after



- Pitchers are OUT!
- NO ROOKIE CONTRACTS!

Factors impacting salary

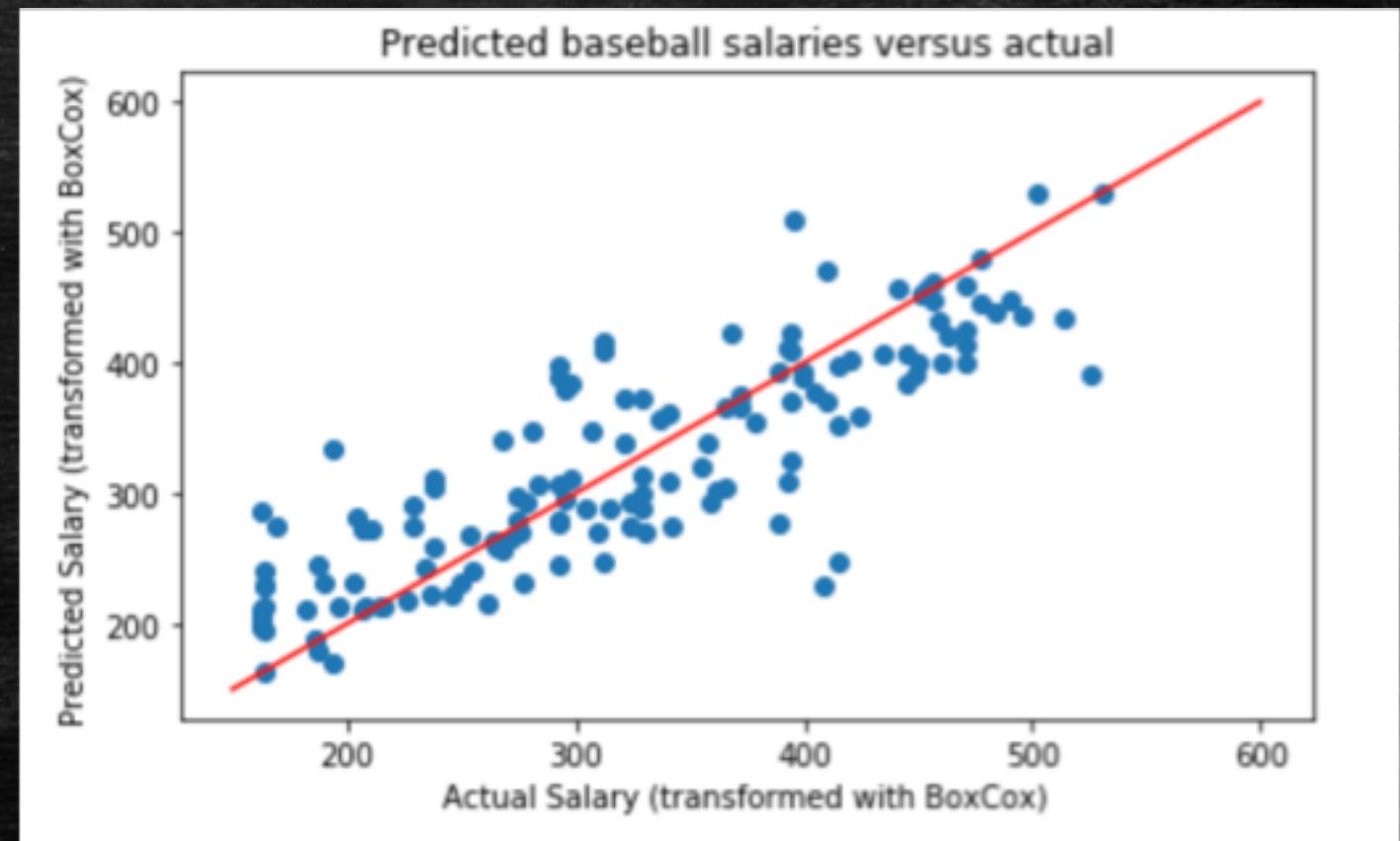
| Factors | Impact |
|--------------------------|----------|
| OBP | Positive |
| Positional - DH | Positive |
| All Star Years | Positive |
| Positional – First Base | Positive |
| Positional – Second Base | Negative |
| dWAR | Positive |
| Age | Negative |
| RBI | Positive |
| Total Games Played | Positive |

Positional Based Salary Variation



Understanding the Linear Regression model's performance

- Training set R^2 , RMSE:
 - 0.605
 - 4,096,244
- Test set R^2 , RMSE:
 - 0.528
 - 5,639,591



Reviewing your performance

| Category | Average |
|--------------|---------|
| OBP | 0.325 |
| RBI | 48.9 |
| Years Named | ~1 |
| Games Played | 94 |

Increase OBP!

more per year!



What are you really worth?

| Category | 2018 Actual | 2018 Model Prediction | |
|----------|--|-----------------------|---|
| Salary |  A photograph of a man in a blue suit and cap standing next to an orange sports car. He is holding a briefcase and a small umbrella. In the background, there is a building with the word "DEPARTURE" visible. | \$29,848,072 |  A photograph of a group of people at a party. One woman in the foreground is holding up a very large bottle of champagne. The group appears to be in a celebratory mood. |

3%

Future steps to improve model performance

1. Gather more data points
2. Perform analysis of scaled salaries of recent years
3. Gather more parameters to estimate based on in depth defensive statistics
4. Develop model for pitchers