|  |  |  |
| --- | --- | --- |
| **Rank** | **P(Loss)** | **EV** |
| 1 | 0.18% | 0.09 |
| 2 | 0.33% | 0.1584 |
| 3 | 6.63% | 3.0498 |
| 4 | 8.08% | 3.5552 |
| 5 | 26.87% | 8.46405 |
| 6 | 13.48% | 5.392 |
| 7 | 28.30% | 10.754 |
| 8 | 2.54% | 0.9144 |
| 10 | 58.84% | 14.1216 |
| 11 | 17.18% | 3.8655 |
| 12 | 0.38% | 0.1064 |
| 13 | 11.90% | 3.094 |
| 14 | 2.06% | 0.4944 |
| 15 | 28.30% | 6.226 |
| 16 | 4.73% | 0.946 |
| 17 | 57.10% | 10.278 |
| 18 | 14.34% | 2.2944 |
| 19 | 3.85% | 0.539 |
| 20 | 82.82% | 4.9692 |
| 21 | 73.13% | 3.6565 |
| 22 | 29.78% | 2.3824 |
| 23 | 41.16% | 1.2348 |
| 25 | 2.37% | 0.0474 |

**BA 355: ICE 3**

Access Week 4 of the Analytics College Football Challenge online.

**1)** Estimate the probability that each Top 25 team loses using this function:

**2)** Calculate the expected value of each potential pick.

**3)** Assume your goal is to maximize the probability of getting all three picks correct (regardless of points).

1. Which three teams should you pick?

Florida, Wake Forest, Arkansas

1. What’s the chance that you get all three correct?

=0.82\*.73\*.58 = 36%

1. What’s the chance that you get all three wrong?

=(1-0.82)\*(1-.73)\*(1-.58 )= 1.9%

**4)** Assume your goal is to maximize the expected points you earn.

1. Which three teams should you pick?

USC, Baylor and Arkansas

1. What’s the chance that you get all three correct?

=0.28\*.58\*.57 = 9%

1. What’s the chance that you get all three wrong?

(1-0.28)\*(1-0.58)\*(1-0.57)= 13%