

Revision I: Prediction Confidence

Brandon Veber; veber001@umn.edu

Goal: Include prediction confidence values based on each players expected error.

Description: The Mean Absolute Error (MAE) of both the novice and veteran models (described in the full report) was calculated as a function of number of 3PA's. As expected by intuition, the error rate decreases for players who have attempted more 3P's in their career. Figures 1 and 2 below show the error rates for both novice and veteran players respectively. To make use of this information, five bins were optimally selected (shown in Tables 1 and 2) based on error rates and sample sizes. In the updated software, each prediction is now accompanied with an expected error value which is represented in the '+/-' column in the spreadsheet.

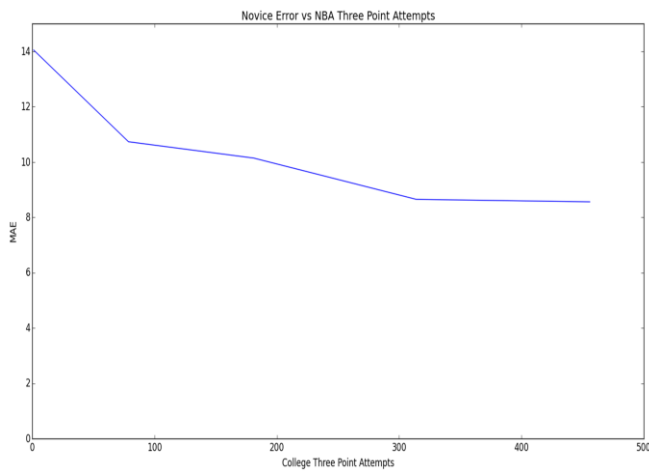


Figure 1 Novice Error by 3PA

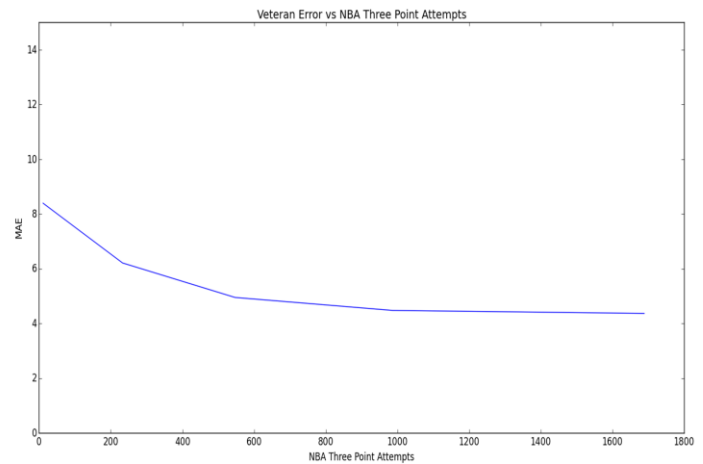


Figure 2 Veteran error by NBA 3PA

Table 2 Novice Expected Error by College 3PA

College 3PA	1 - 50	50 - 100	100 - 200	200 - 300	300 +
MAE	13	11	10	9	8

Table 2 Veteran Expected Error by NBA 3PA

NBA 3PA	10 - 100	100 - 250	250 - 500	500 - 1750	1750 +
MAE	8	7	6	5	4