

Benefits of College Athletics sucess

Ethan Tabtiang
Texas A&M University
February 28, 2024

Abstract

“The Benefits of College Athletic Success: An application of the propensity Score Design” Micheal Andreson UC Berkeley, National Bureau of Economic Research We exploit data on bookmaker spreads to estimate the probability of winning each game for college football teams. We then condition on these prob- abilities using a propensity score design to estimate the effects of winning on donations, appli- cations, and enrollment. The resulting estimates represent causal effects under the assumption that, conditional on bookmaker spreads, winning is uncorrelated with potential outcomes

Introduction

Instrumental Variables Used: The study exploits data on bookmaker spreads as instrumental variables to estimate the probability of winning each game for college football teams. Propensity Score Matching: To address the issue of non-random assignment of athletic success and control for observable characteristics, the study employs a propensity score design. This approach estimates the causal effects of winning by conditioning on the estimated probabilities of winning derived from bookmaker spreads. (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))

Literature Review

Used alumni donations, acceptance rate, SAT scores to determine wether a college had more sucess after academic sucess (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))

Methodology

Took betting lines and information from US news to compile regression to understand wether college sports had an effect on academic health (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))

Findings

PSM scores had issues because large tables 30000x9 columns corrupted do file, used matched pairs because indexing too large still resulted in problems (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))

Table: Regression Results Summary			
Independent Variable	Coefficient	Standard Error	P-value
Before Matching			
Control	10189	0.017077	0.034242
70.011090			
Treatment	8845	0.980328	0.081060
69.294064			
After Matching			
Control	8845	0.086906	0.00000
92.000000			
Treatment	8845	0.980328	0.08106
69.294064			

Discussion

The paper found that Alumni donations acceptance rate were increased when colleges had more sucessful athletic programs. The study finds robust evidence that football success leads to increased athletic donations, higher numbers of applicants, lower acceptance rates, increased in-state enrollment, (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))

References

Anderson, Michael L. “The Benefits of College Athletic Success: An Application of the Propensity Score Design.” Review of Economics and Statistics, vol. 99, no. 1, Mar. 2017, pp. 119–134, https://doi.org/10.1162/rest_a00589. Accessed 27 Jan. 2021

Appendix

$Y_i(t+1) = 0 + 1W_{it} + 2W_{i(t2)} + 3S_{it} + 4S_{i(t2)} + t+1 + i(t+1)$ (Content generated using PlusMind ChatGPT. Editable on [www.plusmind.ai](#))