

University Applications. A university is currently seeking to improve the number of applications received for their undergraduate program. To accomplish this goal, they conducted a study that collected demographic characteristics and tuition information from 777 universities and colleges across the United States. Develop a regression model that can identify the key factors correlated with the number of applications received. What are your suggestions for the university?

Variables in the dataset:

Apps = Number of applications received

UniversityName= Name of the university

Private = Public/private indicator

Accept = Number of applicants accepted

Enroll = Number of new students enrolled

Top10perc = New students from top 10 % of high school class

Top25perc = New students from top 25 % of high school class

F.Undergrad = Number of full-time undergraduates

P.Undergrad = Number of part-time undergraduates

Outstate = Out-of-state tuition

Room.Board = Room and board costs

Books = Estimated book costs

Personal = Estimated personal spending

PhD = Percent of faculty with Ph.D.'s

Terminal = Percent of faculty with terminal degree

S.F.Ratio = Student/faculty ratio

perc.alumni = Percent of alumni who donate

Expend = Instructional expenditure per student

Grad.Rate = Graduation rate