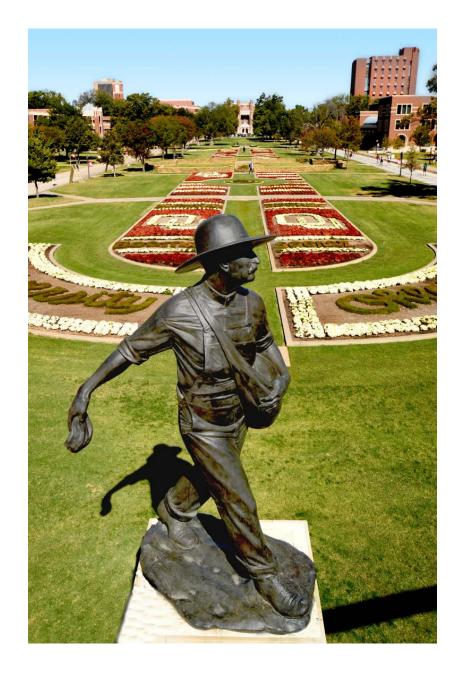


Data Informed Recruiting: Predictive Analytics Improves Recruiting

Lisa Moore, University of Oklahoma

About OU

- Public
- Doctoral-granting
- Research intensive
- Approx. 20,000
 undergrads, one of
 smallest in Big 12
- Second lowest tuition in Big 12



The Problem

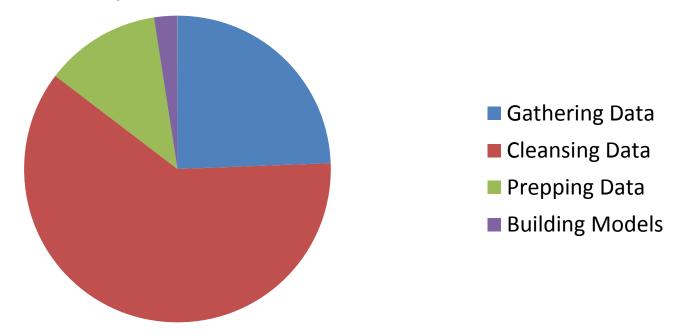
Recruit better prepared students using fewer resources

Focus efforts only on those that will enroll

Decisions based on gut instinct and anecdotal stories

Overview

- Used previous 2 years of admission data
- Created separate models based on residency
- Project completed in 5 weeks



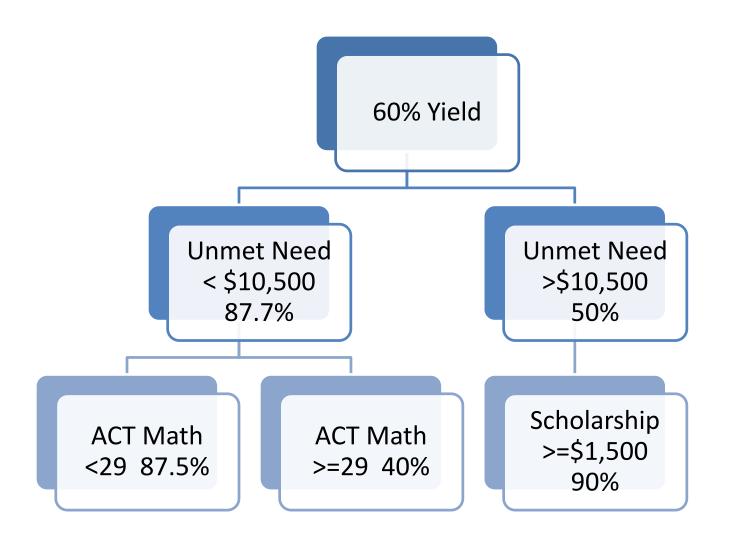
Data Exploration

- 60 variables from 7 different sources
- Most variables unreliable, missing, or incomplete
- Pared down to 20 variables from 4 different sources
- Required to include a few non-significant variables

Predictive Models

- Created 4 different models for each group
 - Decision Tree
 - Logistic Regression
 - Forward Stepwise Regression
 - Backward Stepwise Regression
- Logistic regression for non-residents
- Decision tree for residents
- 89-92% accuracy

Resident Decision Tree



Findings

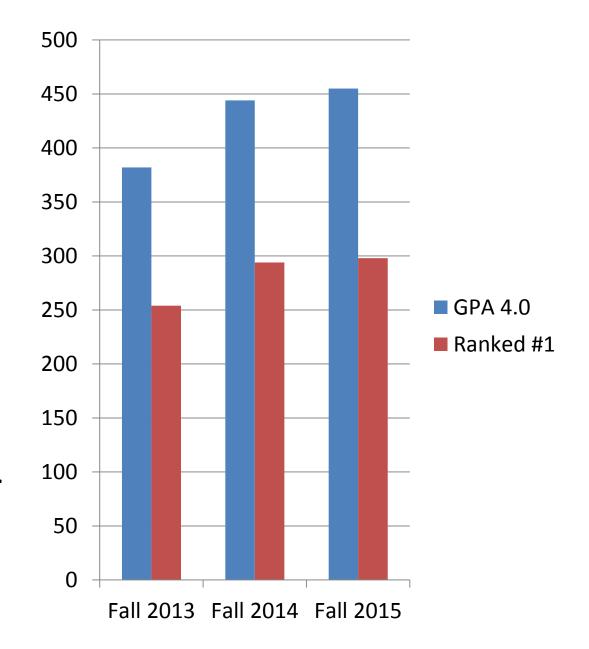
 Better prepared residents are not more likely to enroll

Large scholarship amounts not significant

 Provided decision trees to recruiters as visual aid to determine appropriate actions

Outcomes

- Largest class ever
- Most academically prepared
- More National Merit than any public or private university
- "I did what you said, and BAM these kids enrolled. It was kind of creepy." ~ Director of Recruitment

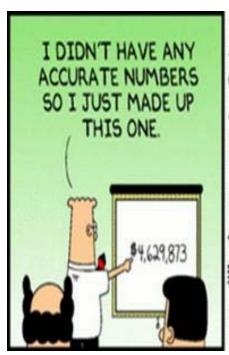


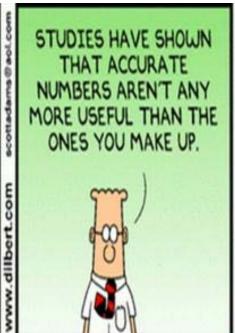
Lessons Learned

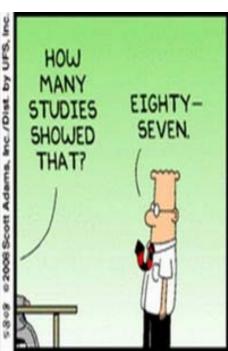
- Sharing results
- Explaining process and results to non-data admins
- Cumbersome refresh process



Reality







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SAS User Group for Institutional Researchers (SUGIR)

https://communities.sas.com/t5/SUGIR-Community/gp-p/sugir