Embedding Student Analytic Findings into Operational Tools: Implementation Process and Visualization Showcase

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Achieving LEADER the Dream COLLEGE OF DISTINCTION

Alamo Colleges District - IRES

- 5 Institution Community College District
- Very Large CC (VLCC) Designation
- Serves Bexar County
- District Institutional Research
 - Reporting
 - Analytics
 - Visualizations
 - Ad Hoc



Analytics use **historical data** to assess the relationship between **observable factors** and a **phenomenon**









Systematic testing of hypotheses

Identification of persistence estimators

Interpretable metric outputs – Odds Ratios







The unfamiliarity of analytics in higher education leads to uncertainty and distrust.

- Does your model say that this student is 100% going to show up in the Fall?
- But I once knew a student with these exact characteristics that didn't come back.
- What did you include in your model?
- Why didn't you consider XXX in the model?



The Model

Who is the least likely to persist?

Which factors influence the above likelihood? Decision Rules

The Advisor
Who should I
spend my
limited time on?

What should I do to help that student?







Model factors are not always operational



Ryan's Fall term grades suggest low academic momentum



Connect Ryan to peer study groups

Encourage study/life balance training



Direct counseling with Ryan





The cost of change is not incorporated into the structure of the decision





The Advisor





Multi-media tools to familiarize faculty with analytics

Variables of Interest • High School GPA • Alamo GPA • Fall to Spr. Persistence • SCH • Number of Withdrawals • Touch Points Attended

ALAMO

C O L L E G E S D I S T R I C T





Moving from explicit rank ordering to softer analytical signposting







Incorporate operational estimators into the model



Continued User Interaction



Let's take a look at our dashboard









Thank you. Questions?





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