

Using Predictive Analytics to Forecast Financial Aid

A Rapid Insight Deep Dive

January 23rd, 2023

Rapid Insight

Meet Your Presenters

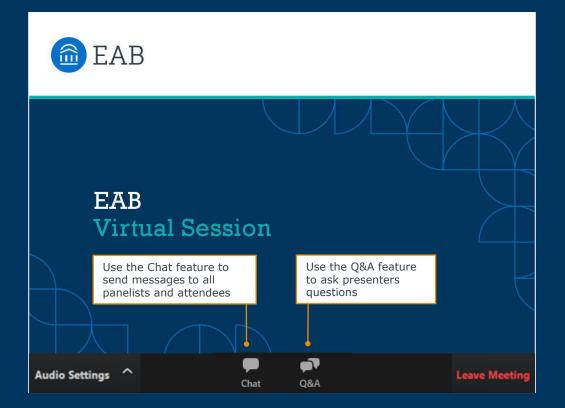


James Cousins Strategic Leader, Data and Analytics

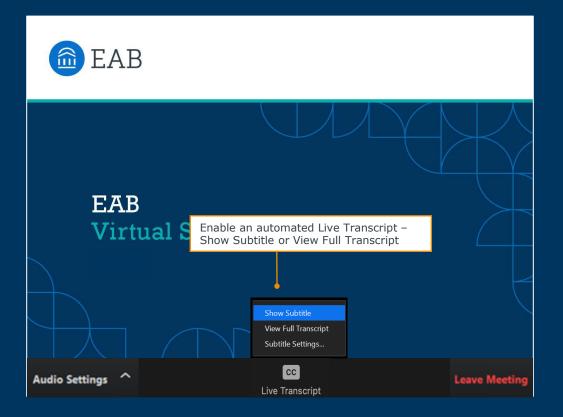


Lily Brennan *Strategic Leader, Data and Analytics*

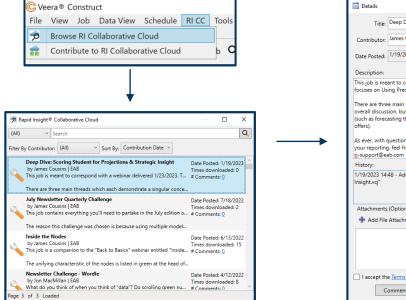
Submit a Question or Comment



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Rapid Insight Collaborative Cloud



🗄 Details	ı x			
Title: Deep Dive: Scoring Student for Projections & Strategic Insight				
Contributor: James Cousins				
Date Posted: 1/19/2023 2:48:00 PM Category: Job	v			
Description:	Â			
This job is meant to correspond with a webinar delivered 1/23/2023. The webinar focuses on Using Predictive Analytics to Forecast Financial Aid. There are three main threads which each demonstrate a singular concept from the overall discussion, but they can be used together for more intricate reporting as well (such as forecasting the anticipated yield "after" strategically assigning scholarship offens). As ever, with questions, comments, or any interest in bringing these techniques into your reporting, feel free to reach out to: prisupport@eab.com Histop: 1/19/2023 14:48 - Added Attachment "Scoring Student for Projections & Strategic Insight.vcj"				
Attachments (Optional)				
Add File Attachment X Remove File Attachment				
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Call to Action

Share your questions about financial aid and predictive analytics in the chat. We will do our best to field them and follow up when we don't know the answer!

Sample questions:

- Is there any way we can gauge the impact of financial aid despite the disruption of the recent COVID years?
- Can we forecast yield for *specific* types of scholarships/grants?
- Is financial aid just like a knock-off competitor to kool-aid?

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Predictive Modeling and FinAid Factors



Forecasting Net Financial Aid Outlay



Predicting Discount Rates



Strategic Discretionary Scholarship Offers



Audience Q & A

Offer Amount Doesn't *Mean* What You Think it Means

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	Na Grand Street		More "merit based" aid <i>means</i> more choices
Control (1) Control (1)	Tele Stady in 1971. Hills Engly	<u>,</u>	Some forms of aid are not offered in controlled conditions

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Financial aid is fundamentally correlated with application characteristics

Users often think of financial aid's impact in a vacuum, but its dependencies on other student characteristics can lead to counter-intuitive relationships inside of models.

Quick Poll

Which of these topics is most compelling to you?

- Forecasting gross financial aid outlay
- Forecasting discount rate / net financial aid outlay
- Strategic allocation of discretionary scholarships



Predictive Modeling and FinAid Factors



Forecasting Net Financial Aid Outlay



Predicting Discount Rates

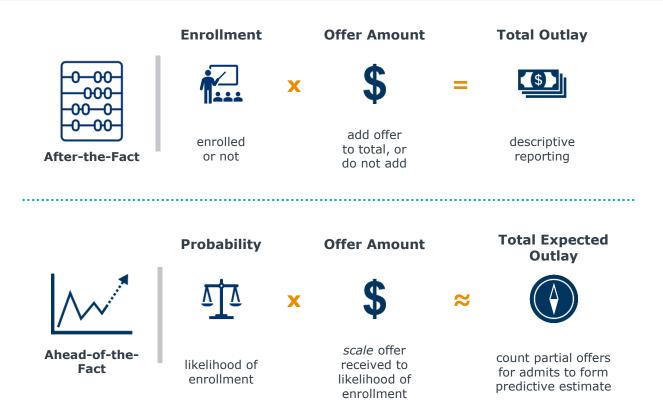


Strategic Discretionary Scholarship Offers



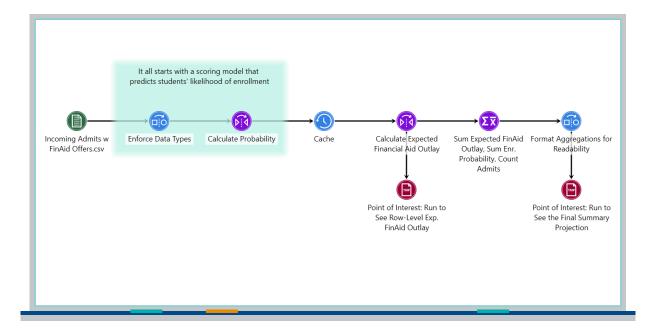
Audience Q & A

Calculating Financial Aid Outlay — Two Ways



Forecasting Net Financial Aid Outlay

Screenshot from Job Posted in the RI Collaborative Cloud



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Predictive Modeling and FinAid Factors



Forecasting Net Financial Aid Outlay



Predicting Discount Rates



Strategic Discretionary Scholarship Offers



Audience Q & A

Discount Rate

Definition: The rate of expected revenue that you are discounting via financial aid offers

· Can be calculated at either the individual or the cohort level

How to Calculate Discount Rate:



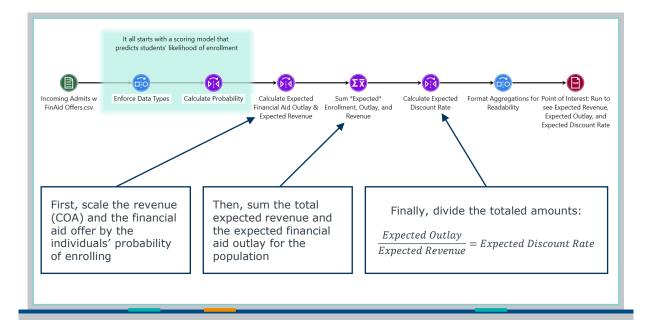


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Translating this simple calculation into a projection mostly entails multiplying the offered aid and the cost of attendance by the probability of enrollment.

Forecasting Net Financial Aid Outlay

Example of Job Posted in the RI Collaborative Cloud



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Predictive Modeling and FinAid Factors



Forecasting Net Financial Aid Outlay



Predicting Discount Rates



Strategic Discretionary Scholarship Offers



Audience Q & A

When Do "Strategic Scholarship Offers" Apply?





If any of the students are eligible for discretionary funds you cannot offer it to everyone who qualifies. Using the enrollment probability as decision support can help increase offer yield.

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Predictive Modeling and FinAid Factors



Forecasting Net Financial Aid Outlay



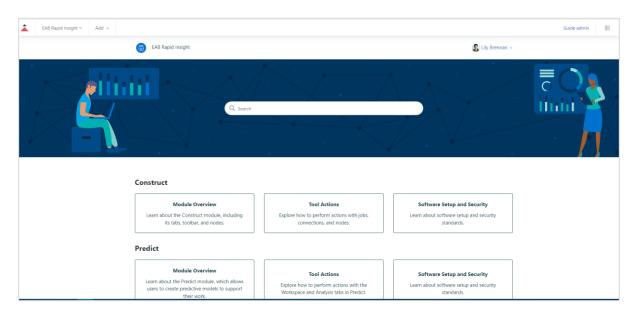
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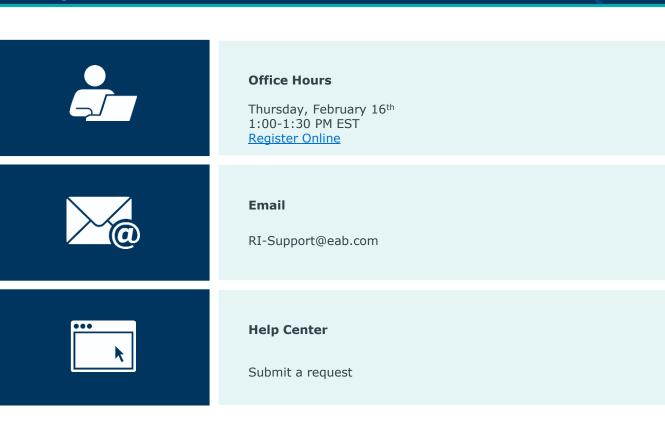
Strategic Discretionary Scholarship Offers



https://support.rapidinsight.eab.com/hc/en-us



Ways to Reach Us



Rapid Insight Office Hours Sessions Occur Once a Month

Thursday, 1:00 – 1:30 pm Eastern Time

- February 16th
- March 16th
- April 20th

Register for sessions online (linked in the Chat)

Q & A: Submit a Question Using the Q&A Button





James Cousins Strategic Leader, Data and Analytics

Lily Brennan *Strategic Leader, Data and Analytics*



Additional Questions?

Email **RI-Support@eab.com** with technical questions and **RapidInsight@eab.com** for all other inquiries.



How was today's session?



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