The Future of Enrollment Management:

How Artificial Intelligence and Machine Learning Can Positively Impact Engineering Enrollment Outlooks



Prescriptive Analytics and Intelligent Names May 18, 2022

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Presenters





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Your Ecosystem Approach to the Student Journey







2000's Top Ten Did Not



What is the Relevance to Higher Ed?

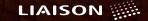
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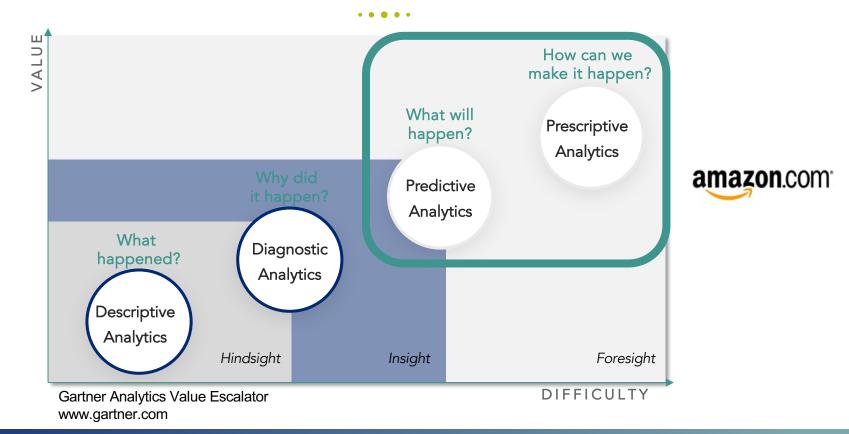


Insights is the language of decision makers

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The Emergence of AI and ML as Decision Drivers





Al and ML Create Better Outcomes for Students and Institutions

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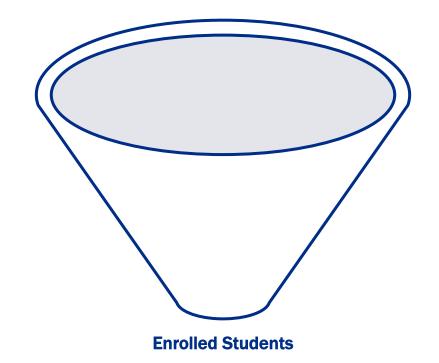


Predict Behavior and Prescribe Actions that Optimize Outcome



We Face Myriad of Challenges

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Top of funnel contacts

- Cliff
- Test Optional
- International?
- Stealth
- Value
- Outcomes
- Resources

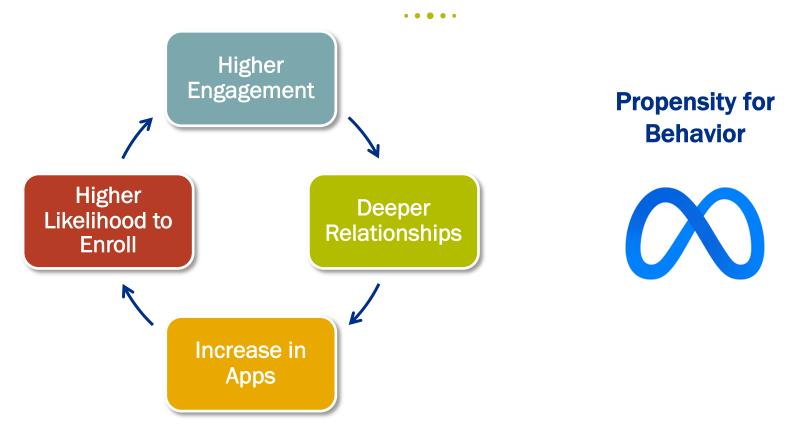




The Intelligent Funnel

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Top of the Funnel Disruption

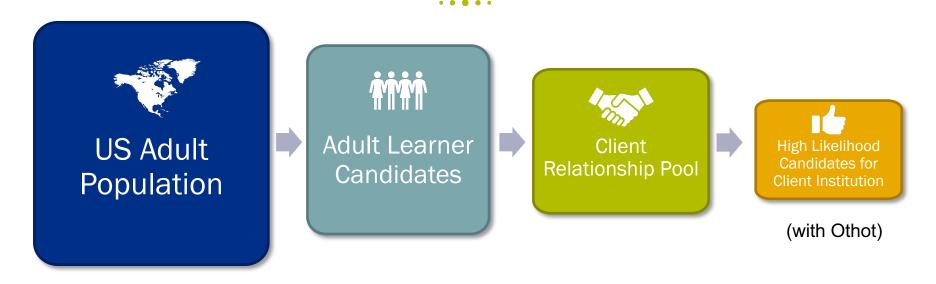




A customizable, costeffective advanced analytics solution to start building relationships with the best adults for your institution



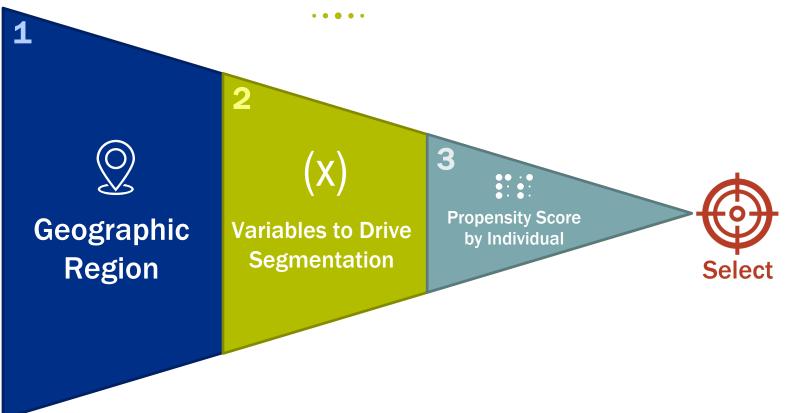
Intelligent Names: Targeting the Segments and Individual



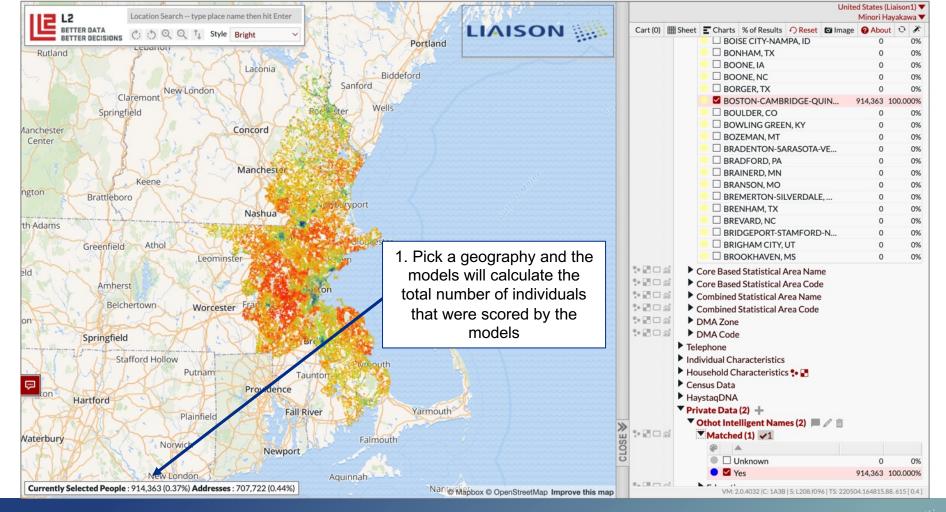
- Focused on *Individualism* just because "you" look like someone doesn't mean you have the same academic ambitions
- Driven by "living analytics" continuous updated as new data is available



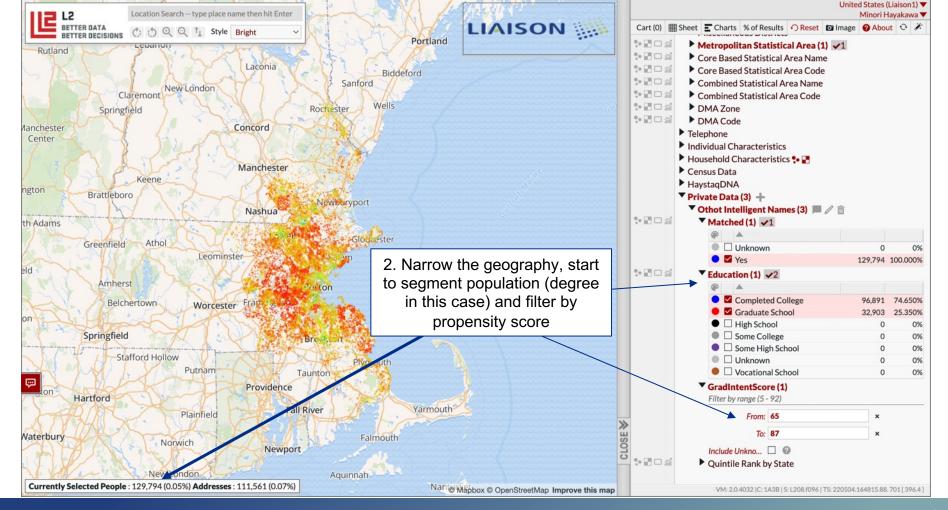
What if you could



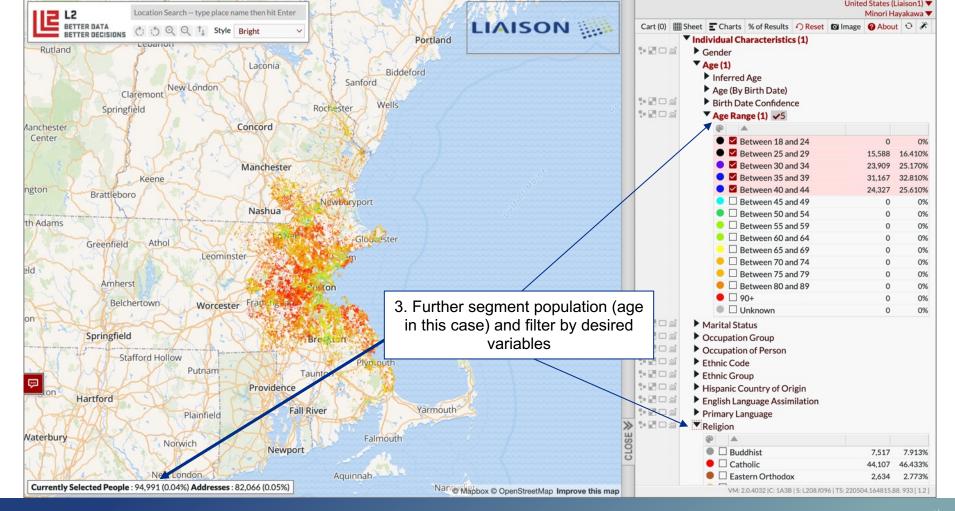




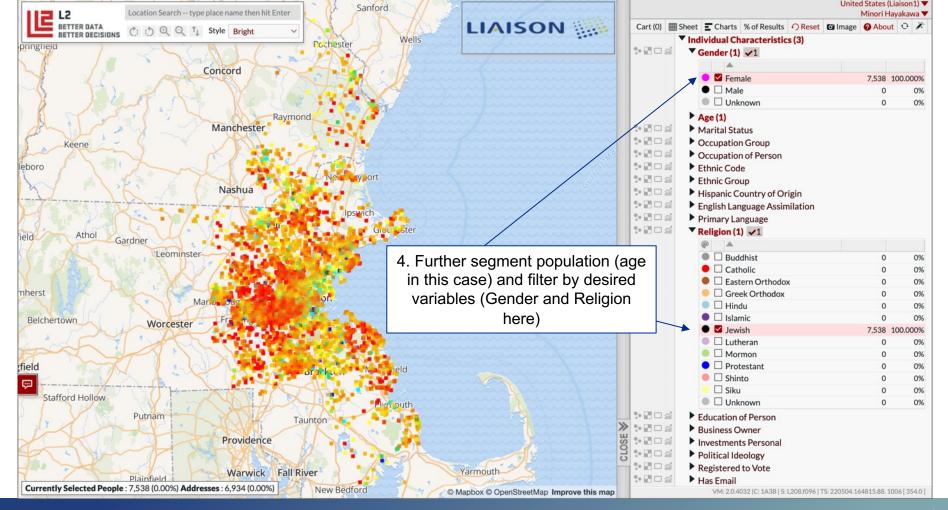
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What happens next?

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- School selects names
- They receive:
 - Email addresses (20% 50% fill)
 - Mailing address for direct mail/loading into social media platform
 - Can work with L2 for social media campaigns (will be additional cost)
 - Cell phone number for text campaign (no additional cost)
- Work with EMP to develop marketing campaigns (case-by-case)







What is the outcome that you want?

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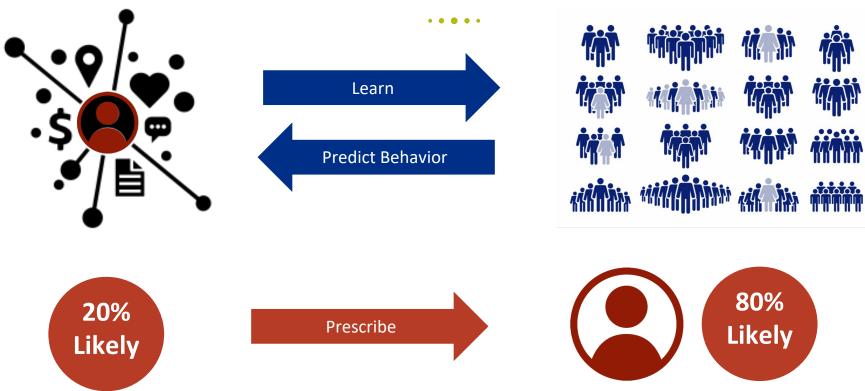
- ✓ A better shaped class that thrives at your institution
- A reduction in staff/student time, effort, and cost

What You Need:

- Improved understanding of <u>student behavior</u> (through data)
- <u>Personalization</u> (what will have the biggest impact on which students, and when?)

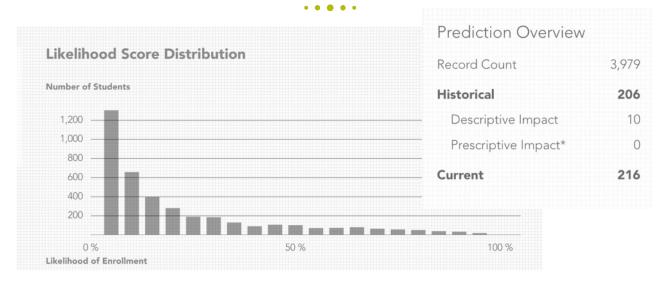


How It Works





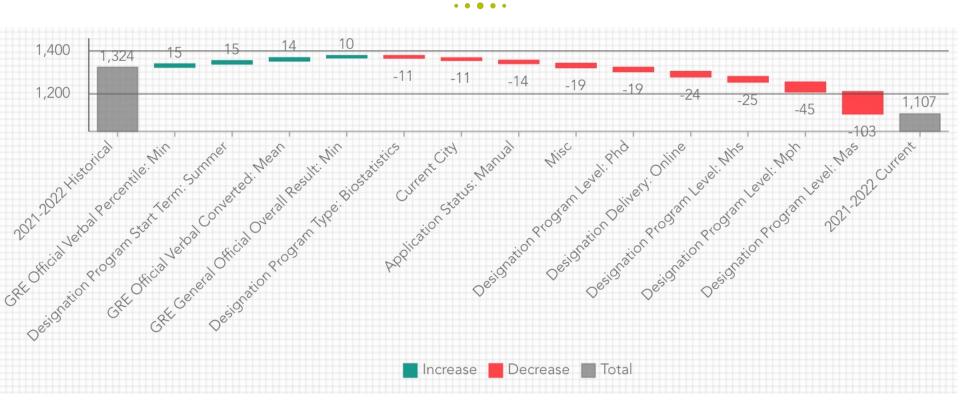
ML Is the Pathway to A Better Shape







Explainable AI Increases Trust and Usability





Identify The Individual Actions To Maximize Yield

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✓ 2021 Students ✓ ALL

| Likelihood Score $	imes$ | \equiv Student ID \times | \equiv Life Cycle \times | \equiv Counselor Name $	imes$ | $\equiv \frac{\text{Decile}}{(\text{Numeric})} \times$ | $\equiv \frac{\text{Recommendation}}{1} \times$ | = Recommen |
|--------------------------|------------------------------|------------------------------|---------------------------------|--|---|------------------|
| 36% | 0034100000qrXimAAE | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 37% | 00341000029ougDAAQ | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 41% | 0034100000qcMTLAA2 | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 72% | 0034100000qcIsuAAE | Inquiry | COUNSELOR 2 | 1 | Inq: Financial Brochure | |
| 39% | 0034100000qcIrIAAU | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 62% | 0034100000qcKURAA2 | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Ing: Financial B |
| 75% | 0031L00002uDqHgQAK | Inquiry | COUNSELOR 1 | 1 | Inq: Visit Postcard | |
| 34% | 0034100001mgnWYAAY | Inquiry | COUNSELOR 10 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 47% | 00341000024rJ9mAAE | Inquiry | COUNSELOR 1 | 1 | Inq: Apply Now Postcard | Campus Visit |
| 64% | 0034100000qcloWAAU | Inquiry | COUNSELOR 8 | 1 | Inq: Apply Now Postcard | Inq: Financial B |
| 62% | 0034100001lq1c9AAA | Inquiry | COUNSELOR 8 | 1 | Inq: Visit Postcard | |
| 35% | 0031L00002gsEUMQA2 | Inquiry | COUNSELOR 8 | 1 | Ing: Apply Now Postcard | Campus Visit |

Othot Identifies the Most Impactful action for each individual student. This can drive personalized campaigns throughout the enrollment cycle.



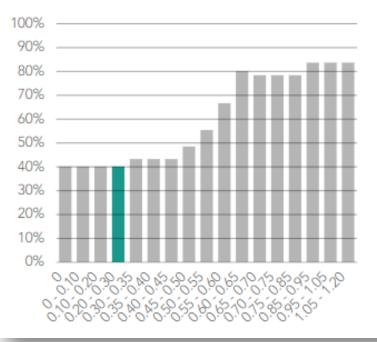
ML Is The Pathway to Leverage

. . . .

% Tuition Met By All Aid Sensitivity

| Unique Id | 0 | 0 - 2,000 | 2,000 - 5,000 | 5,000 - 1 |
|-----------|------|-----------|---------------|-----------|
| 4186791 | 2 % | 4 % | 4 % | 4 % |
| 4186816 | 0.% | 8 % | 8 % | 8 % |
| 4186820 | 0 % | 3 % | 3 % | 3 % |
| 41868261 | 44 % | 42 % | 42 % | 51 % |
| 4186861 | 0 % | 3 % | 3 % | 3 % |
| 4186971 | 0 % | 8 % | 8% | 0 % |
| 41871401 | 7 % | 23 % | 31 % | 39 9 |
| 4187237 | 4 % | 11 % | 11 % | 11 9 |
| 41872371 | 28 % | 34 % | 34 % | 34 % |
| 4187264 | 2 % | 12 % | 12 % | 12 5 |







Using the platform, Pitt Law:

- ✓ Analyzed data by diversity
- ✓ Targeted more competitive candidates
- ✓ Expanded its prospect base
- ✓ Focused on increasing LSAT scores

Results:

- ✓ Increase diversity by **7%**
- ✓ Improve ave LSAT scores to goal of **160**
- Best admissions year yet in terms of scores, GPA, and gender-based demographics





Challenges:

 \checkmark

Optimize marketing spend



Find efficiencies in CRM

Solutions:

- Used Othot platform predictions to understand factors
 that drive enrollment
- Optimized marketing and recruiting efforts to identify students most likely to enroll and increase recruiting event attendance more than 30%
- Utilized CRM for tracking student lifecycle and automating communications, triggers, etc.

Results:

- Exceeded goal by 322 students (9% growth in 3 years)
- Achieved opportunity to guide strategy for university five-year plan

Centralized Application Model

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- Meet centralized admissions requirements while providing for unique program needs, including:
 - Program-specific applicant questions
 - Supplemental document uploads





Finding the Best Fit Students

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Q & A

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Upcoming Events

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Join us virtually:

Virtual Webinar

Engineering Educators Exchange

June 22 at 2:00 p.m. ET

Come see us in person:



The Slate Innovation Summit

June 16-17 in Nashville



The ASEE Annual Conference

June 26-29 in Minneapolis

Visit us in booth 823





Join us to experience:

What's Ahead in Higher Ed Peer Perspectives Trends & Trajectories Ed Talks Product Plans Solution Training



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Thank You

Please take a moment to complete a brief one-question survey at the conclusion of this webinar.

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