

The Future of Fundraising: Machine Learning, GPT and Al Assistants

Presented by Tim Paris





About me

- PhD in neuroscience
- CEO/Co-founder of Dataro
- Lover of fundraising data
- Recently moved to San Francisco
- Currently at Bridge Conference in D.C.





Agenda



What should you (not) do with it?

Share real world examples

Help you get started



What is the future of Al?





"Nothing can replace me"

"Humans need not apply"

The 4 W's (and H) of fundraising

Who When Why How What



The 4 W's (and H) of fundraising

Who Donor 123

When Now, Next year, Thursdays?

Why Prospect, Upgrade, Convert?

How Mail, Phone, Email, SMS?

What Emotional, Actionable, etc



How often do you use Al (like Chat GPT?)

- Every weekEvery monthOne or twice
- Never

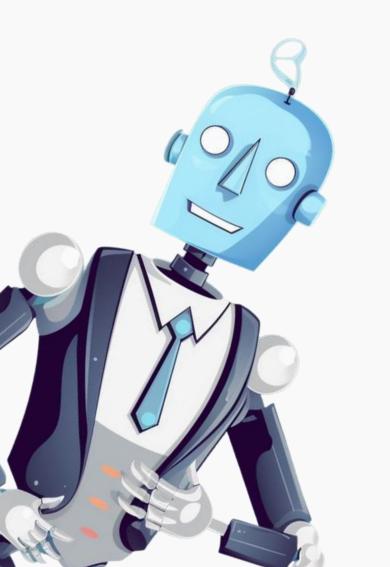


Our fundraising community





are using ChatGPT in their fundraising work



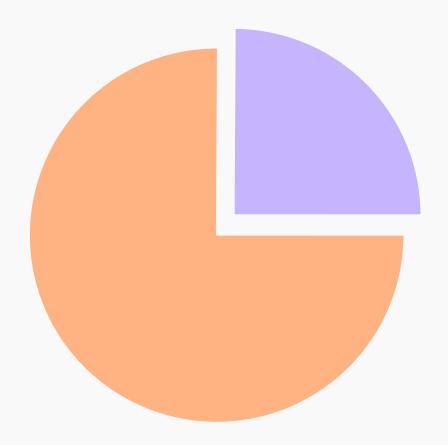


Are you making the most of Al in fundraising?

- Yes I'm confident!
- Not sure / maybe
- No
- I don't use it enough to know



Our fundraising community











PART ONE

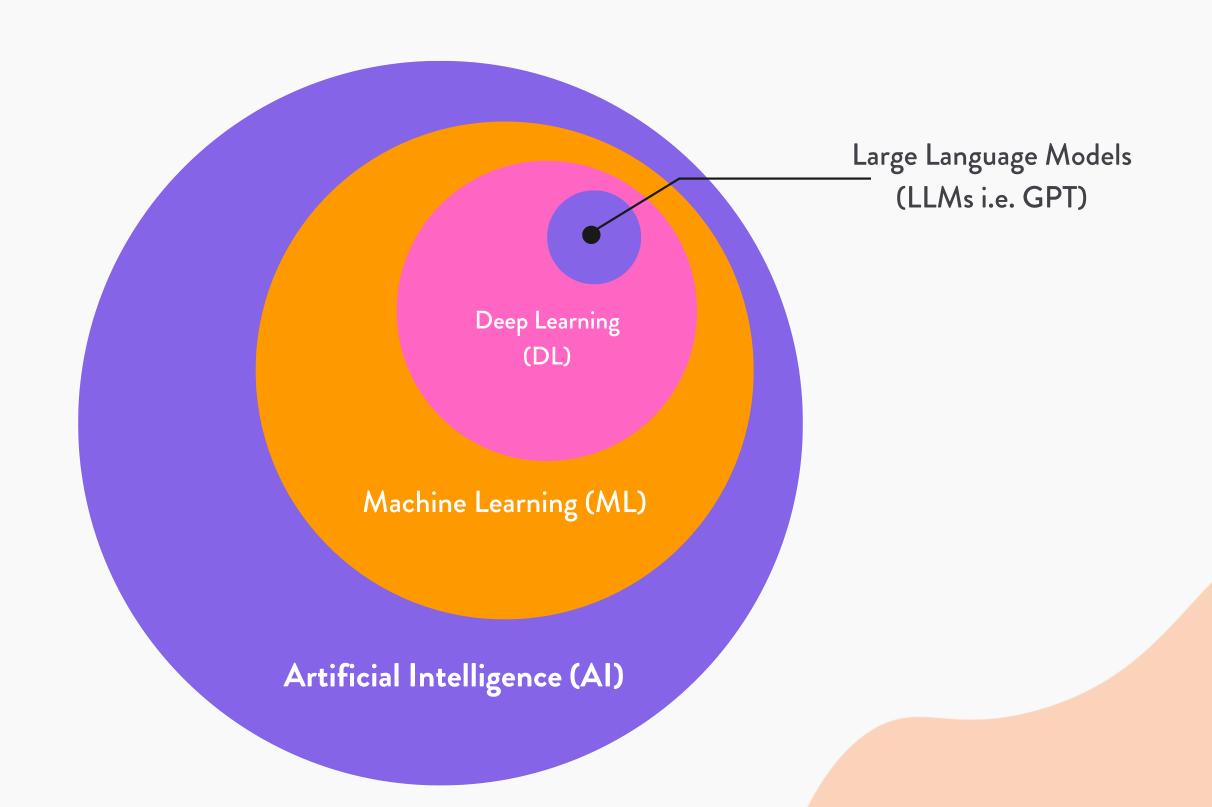
10x Al principles

(in 10 minutes or less)





1. Al is like an onion





2. Two types of Al

Predictive Al

- Generates predictions
 Requires lots of data
 Learns from your data
- Better for tasks that require accuracy

Generative Al

- Generates new content
- Requires only user input
- Already learnt from other data
- Better for tasks that require creativity or speed



3. Predictive Al

Machine Learning (ML)

Pattern analysis



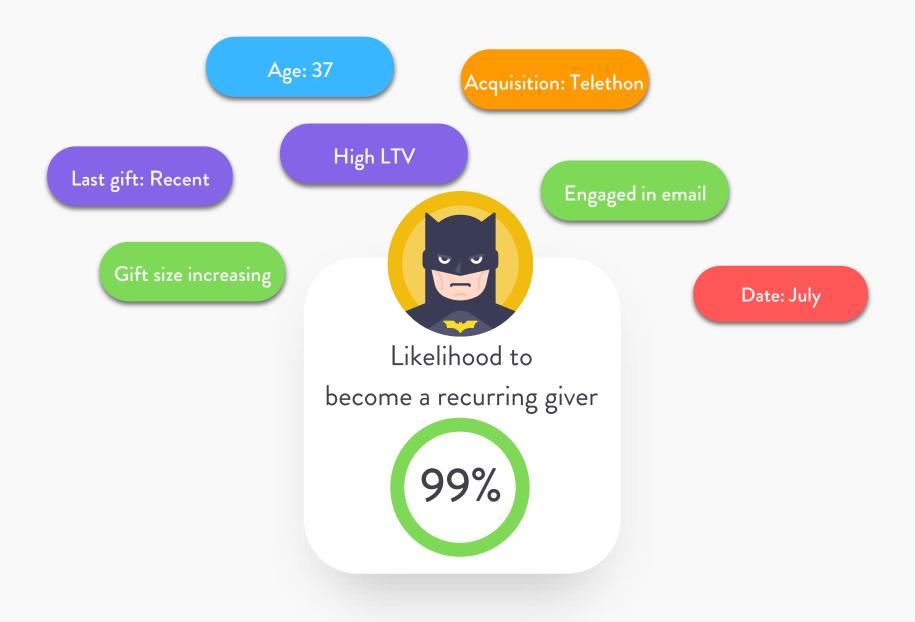
4. Input to ML is historical data

To predict which donor is likely to give to an appeal... a machine learning model will:

- Look at their entire donor journey (eg acquisition channel, age gender, payment methods, giving history etc)
- Look at patterns of events leading up to giving (eg commonly gives at end of year)
- Use these patterns or 'model' to predict future behaviour (eg they are likely to give again at end of year)



5. Output of ML is future predictions





6. Generative Al

Large Language Models (LLM)

Chat GPT

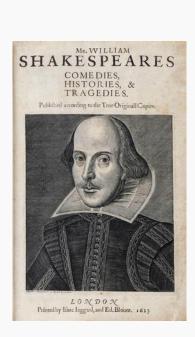


7. Large Huge Language Models





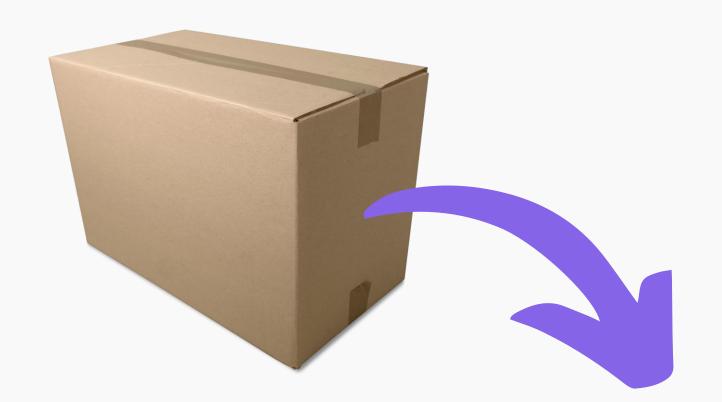
+100s GB words







8. LLMs are predicting the next word



What is the next word in this ______



9. It can model more than the next word

Describe a fundraising campaign that batman would gladly give to As a character, Batman, or Bruce Wayne, is driven by a strong sense of justice and a deep desire to improve the lives of the people of Gotham. So, a fundraiser that Batman might contribute to would likely align with his values of justice, empowerment, and community improvement. Gotham City Orphans Fund: This fundraising campaign aims to better the lives of orphans and vulnerable children in Gotham City, providing resources for their education, healthcare, and general well-being. The campaign resonates with Batman's personal history as he himself became an orphan at a young age and understands the importance of providing a safety net for these children.



...it can also represent images



Midjourney Bot ✓ BOT Today at 19:32

slr batman selling cakes at a bake stand as part of an event to raise funds for the Gotham City Orphans Fund - Image #3 @paristj





... and audio





... and video

(not yet)



10. If Al were students?

Predictive Al

The student who has studied just 1 subject and takes the test over and over again to keep getting better...

Generative Al

The student who reads all the text books but never went to class....
so doesn't always know what is right and wrong!





PARTTWO

Using Al in fundraising



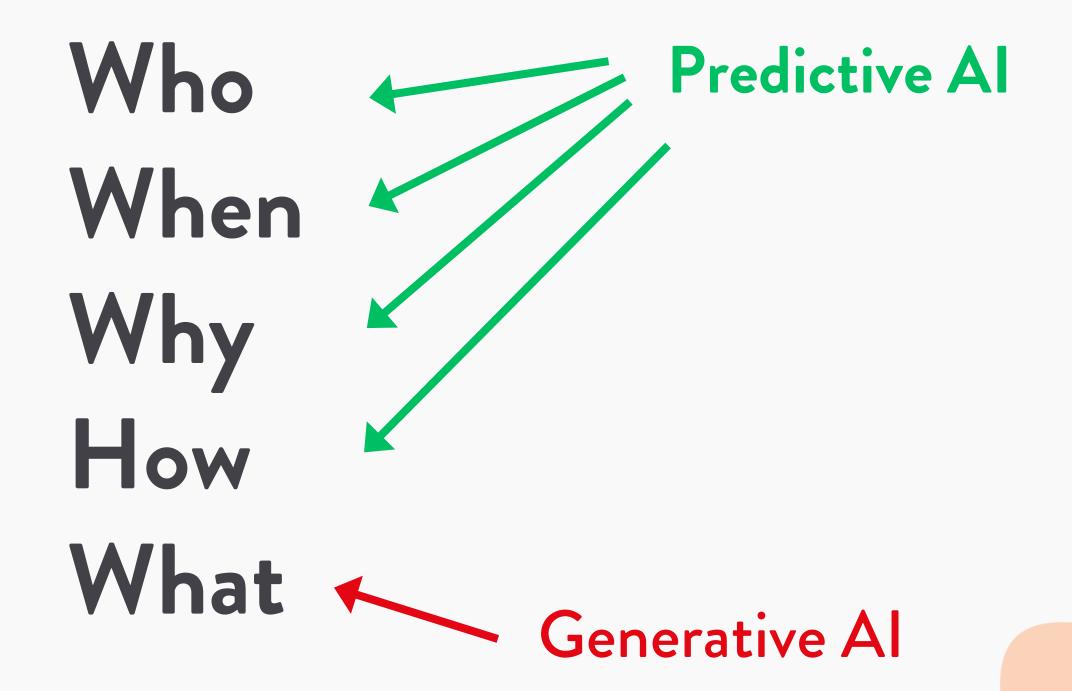


Answering the 4 W's (and H)

Who When Why How What



Answering the 4 W's (and H)





Current fundraising programs treat the donor like a segment



Current fundraising programs treat the donor like a segment



Current fundraising programs treat the donor like a segment



Let's treat them like individuals



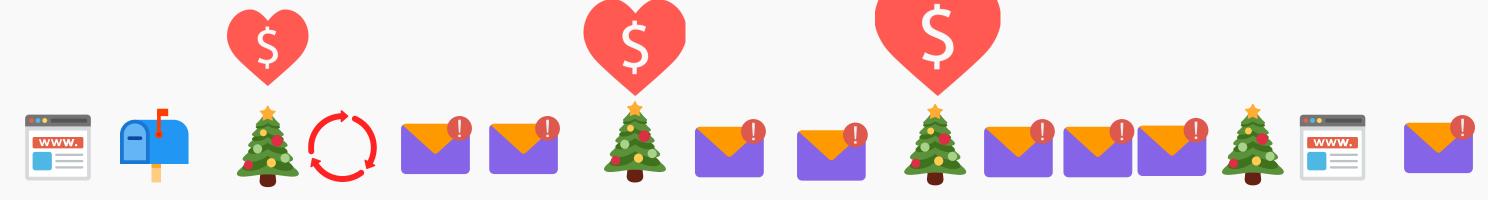




































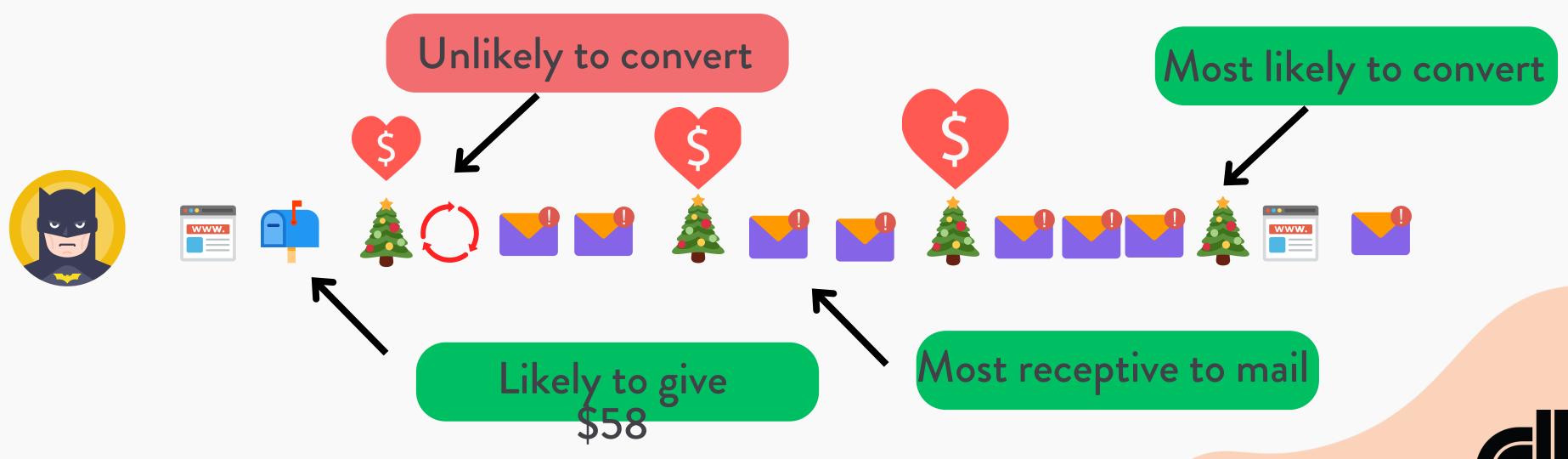








Let's treat them like individuals







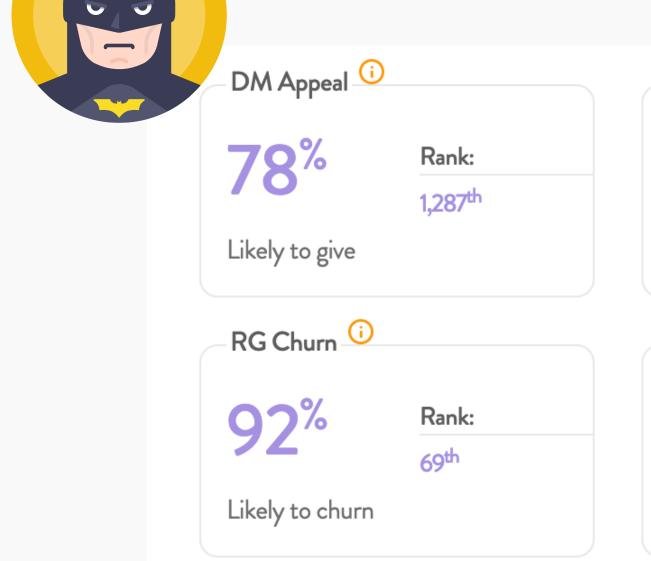


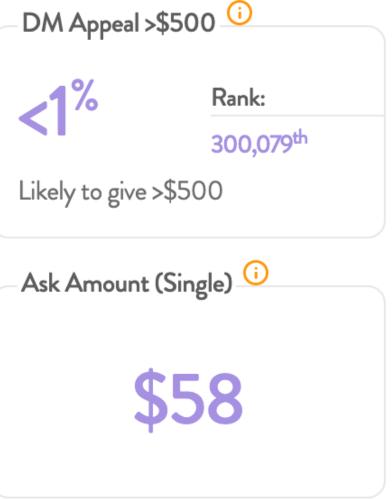
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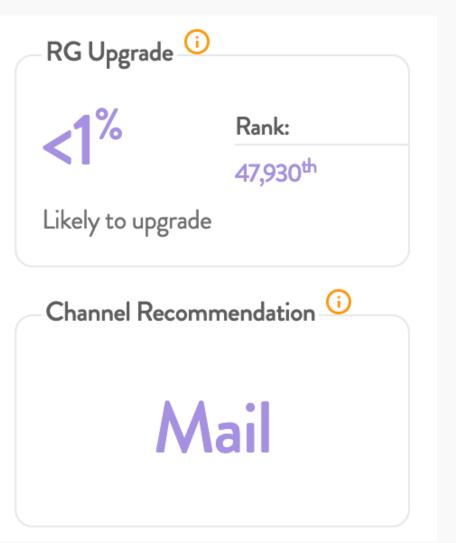
... to this



ML in the wild









The 4 W's (and H)



Who

When

Why

How

What

Bruce

Now!

Give a gift

Email with \$50 ask

?

Predictive Al





10 ways to use Predictive Al

- Who will give to your next appeal?
- Who will become a mid-value donors?
- Who is a good major donor prospect?
- Who is likely to convert to a monthly donor?
- Who will leave a legacy gift?
- Who will upgrade their gift?
- Who will reactivate?
- How much is the best gift amount?
- Which channel will they most likely respond to?
- What is the optimum campaign size?



The 4 W's (and H)



Who When Why How What

Bruce Predictive Al Now!

Give a gift
Email with \$50 ask





Marketing automation has lead to an increase in quantity of communications, but it has not improved quality





To improve "what" we say, we need to solve these two problems

- Good communication takes time
- Good communication is targeted



The most popular use of generative Al is in creating new content



Create Content

Organization name ()	
Save the Children	
Organization cause ①	17/500
Save the Children was the first global movement	for children, boldly
Key statistic highlighting challenge to tackle ①	105/500
A total 45 million people are on the brink of fam	ine across 43 count
Story of the beneficiary ①	125/500
After 8-year-old Zainab* and her 10-year-old be both of their parents when their home in Syria w supporters like you helped provide the care they from this unimaginable trauma and continue the	vas bombed, v needed to heal eir education
Appeal Ask ①	279/5,000
Give \$50	
What is the impact? ①	8/500
brighter future to millions of children and their f	amilies around the w
Who is this appeal from? ①	92/500
Jane Smith, CEO	
Organization specific language ①	15/500
none	



Create Content

Organization name ①	
Save the Children	
Organization cause ①	17/500
Save the Children was the first global movemen	t for children, boldly
Key statistic highlighting challenge to tackle (1)	105/500
A total 45 million people are on the brink of fan	nine across 43 count
Story of the beneficiary ①	125/500
After 8-year-old Zainab* and her 10-year-old b	
both of their parents when their home in Syria v supporters like you helped provide the care they from this unimaginable trauma and continue the	y needed to heal
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Al Assist Output







Dear [Donor Name],

Did you know that right now, an appalling number of children more than 50% of Syria's children population - are suffering the devastating consquences of war and conflict? Their lives are upturned; homes destroyed, education disrupted and childhood innocently stolen.

One such story is of Zainab and Ahmad. At the tender ages of 8 and 10, they witnessed unspeakable horrors when their home in Syria was bombed, claiming the lives of their beloved parents. "We lost our home... our parents... everything in one dreadful night," laments Zainab. Their story is a stark reminder of the havoc conflict wreaks on innocent lives; especially children.

At Save the Children, we work tirelessly to reach children like Zainab and Ahmad. Our mission is to provide emotional and educational support, nurture them back to health, and give them hope for a better future. With the help of our supporters, we have been able to provide relief, care and education to thousands of children who have been victims of war-related traumas.

However, if we don't act today, countless children like Zainab and Ahmad face a grim and unsafe future — a future where they are deprived of their basic rights and a chance of a life beyond the shadows of war. The situation is urgent; the risks of inaction, catastrophic.

This is your chance to make an immediate impact. [Please join our cause and donate \$50 today (www.savethechildren.org/donate)



Tailor to different channels

Existing Content (1) Dear [Donor Name], Did you know that right now, an appalling number of children more than 50% of Syria's children population - are suffering the devastating consquences of war and conflict? Their lives are upturned; homes destroyed, education disrupted and childhood innocently stolen. One such story is of Zainab and Ahmad. At the tender ages of 8 and 10, they witnessed unspeakable horrors when their home in Syria was bombed, claiming the lives of their beloved parents. "We lost our home... our parents... everything in one dreadful night," laments Zainab. Their story is a stark reminder of the havoc conflict wreaks on innocent lives; especially children. At Save the Children, we work tirelessly to reach children like Zainab and Ahmad. Our mission is to provide emotional and educational support, nurture them back to health, and give them 2,100/5,000 Desired elements (select up to 3) (1) SMS, Facebook post, Donation page Generate

SMS







Dear [Donor Name], 50% of Syria's children suffer due to war. Like Zainab and Ahmad who lost everything. Stand with us at Save The Children and donate \$50 today, your help is transformative. Reply STOP to opt out.

Facebook post









Imagine being 10, losing your home, your parents, and your childhood in one dreaded night. V Zainab and Ahmad, Syrian children, had their world shattered by conflict. At #SavetheChildren, we hope to mend their broken spirits and restore their childhood. But, we need your help. [Please join us and donate \$50](www.savethechildren.org/donate) today. Your gift is a lifeline that rekindles hope and rescues children from the shadows of war. We Be the beacon in their dark times. #HelpSyrianChildren #DonateNow

Donation page









Headline: Save Lives Today: Your Donation Can Transform the Future of Syria's Children

Our Impactful Story: Facing Unimaginable Horrors: The Lifeline You Provide



Tailor to donor segments

Existing content (i) Dear [Donor Name], Did you know that right now, an appalling number of children more than 50% of Syria's children population - are suffering the devastating consquences of war and conflict? Their lives are upturned; homes destroyed, education disrupted and childhood innocently stolen. One such story is of Zainab and Ahmad. At the tender ages of 8 and 10, they witnessed unspeakable horrors when their home in Syria was bombed, claiming the lives of their beloved parents. "We lost our home... our parents... everything in one dreadful night," laments Zainab. Their story is a stark reminder of the havoc conflict wreaks on innocent lives; especially children. At Save the Children, we work tirelessly to reach children like Zainab and Ahmad. Our mission is to provide emotional and educational support, nurture them back to health, and give them 2,100/5,000 Target segment (i) Lapsed donor Generate

Recommendations









Suggestion: Change "Did you know that right now" to "You may recall from your previous involvement".

Reason: This reminds lapsed donors of their prior connection with the cause and reestablishes connection.

Suggestion: Change "Our mission is to provide" to "Our continued mission is to provide".

Reason: The use of the word "continued" reaffirms the organization's constancy, subtly addressing potential concerns about lack of impact.

Suggestion: Change "With the help of our supporters" to "With the help of dedicated supporters like you".

Reason: Personalizing the statement re-establishes emotional ties with the recipient, reminding them of their important role in the past.

Suggestion: Change "[Please join our cause and donate \$50 today]" to "[Will you renew your support and contribute today]". Reason: This frames the call-to-action as a renewal of past support, offering a clear reengagement opportunity.

Suggestion: Remove "On behalf of Zainab and Ahmad, and the countless other children who are desperate for a lifeline, I thank



What else can you do?

Create content drafts or craft entire multi-channel journeys for:

- Thank you messages
- Monthly donor conversion, upgrade and reactivation journeys
- Mid-donor stewardship
- Annual/Appeal asks

Enhance existing fundraising communications:

- Find errors
- Translate between languages
- Tailor to segmentsConvert to other channels





PART THREE

Real world examples







We've deployed Al at hundreds of nonprofit organizations













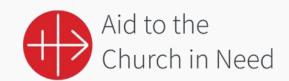














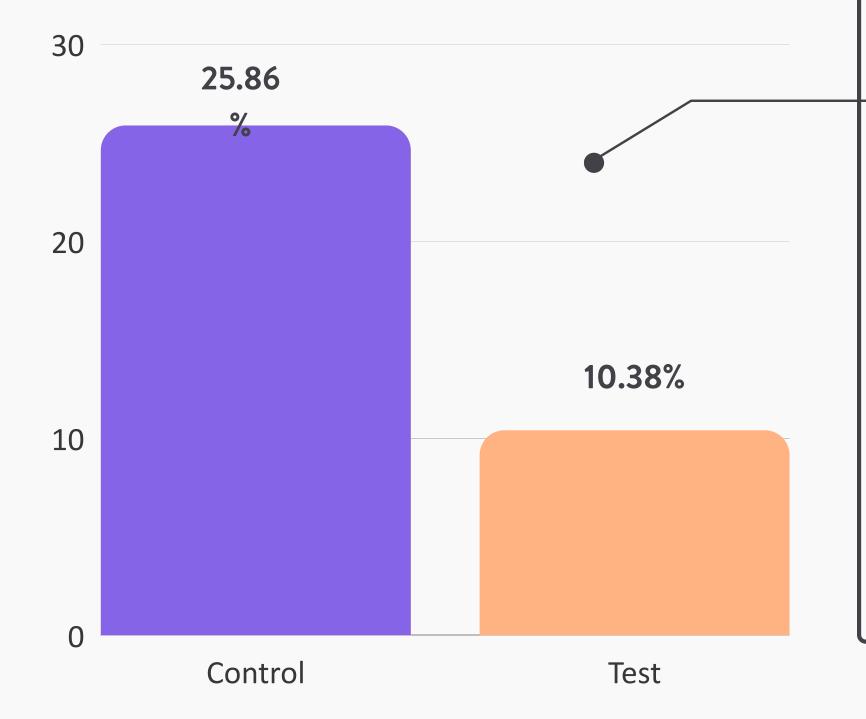








Reducing monthly donor churn

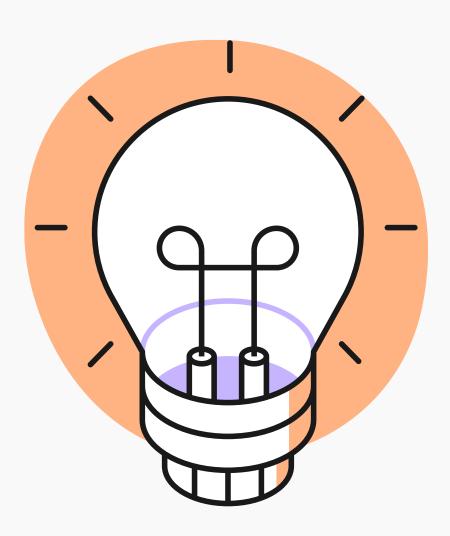


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Case study

GREENPEACE

- Experiment to study the effect of pro-active retention calling
- Thank you phone call to donors most likely to churn
- Over 9 month period 2.5 times more likely to cancel their recurring gifts if not called
- ROI of 10.58x



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FROM THE FRONT LINES OF A RETENTION CAMPAIGN

"I just spoke to [Amy] and she made a point of saying that we are the only charity who rang her throughout COVID and thanked her for her generosity and support. [Amy] donates to multiple charities who have all rung her and asked for more money.

She said because of that, she has cancelled her support of other charities and continued to support [our charity]"

Case study highlights

By using predictive AI, organisations can achieve results like:

- Receiving >\$500k additional gifts for Appeals program over 12months
- Decreasing monthly donor churn by 15%
- Identifying additional \$266k of mid-value donations in a single appeal
- Increasing monthly donor conversion response by 2x
- Increasing monthly donor reactivation rates by 2.5x
- Increasing major donor revenue by 15%





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RESPONSES TO OUR GENERATIVE AI

"OMG! In 2 mins we have 90% of what we need. With only have to put 10% of the effort"

"It came up with some really lovely wording, definitely something in every version that was lovely and I would use"



In Summary

Predictive Al

- Generates predictions
- Requires lots of data
- Learns from your data
- Better for tasks that require accuracy
- + More efficient campaigns
- + More gifts
- + Less wastage
- + Happier donors

Generative Al

- Generates new content
- Requires only user input
- Already learnt from other data (typically)
- Better for tasks that require creativity or speed
- + Save time
- + More relevant content
- + Happier donors





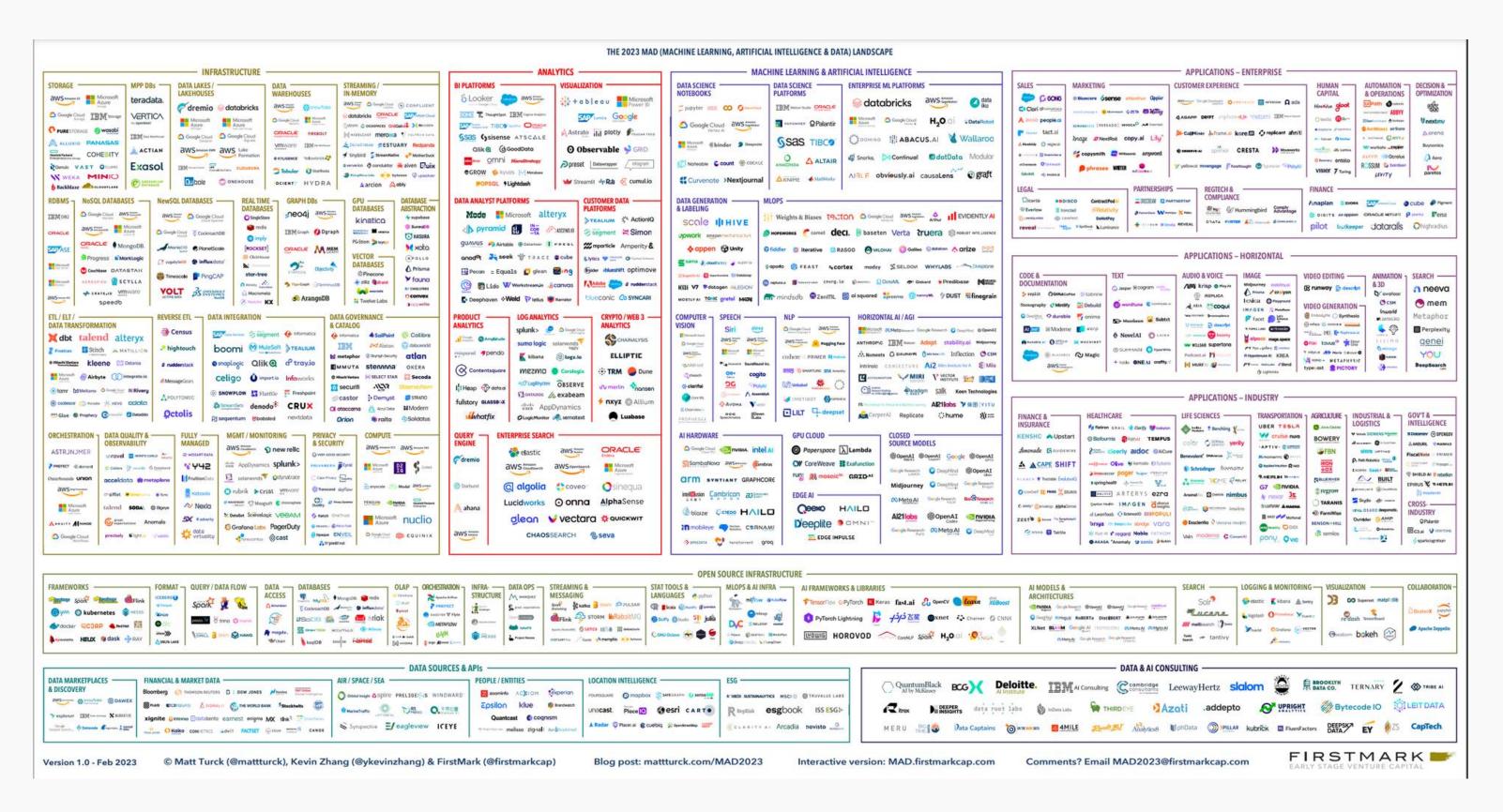
PART FOUR

How to get started





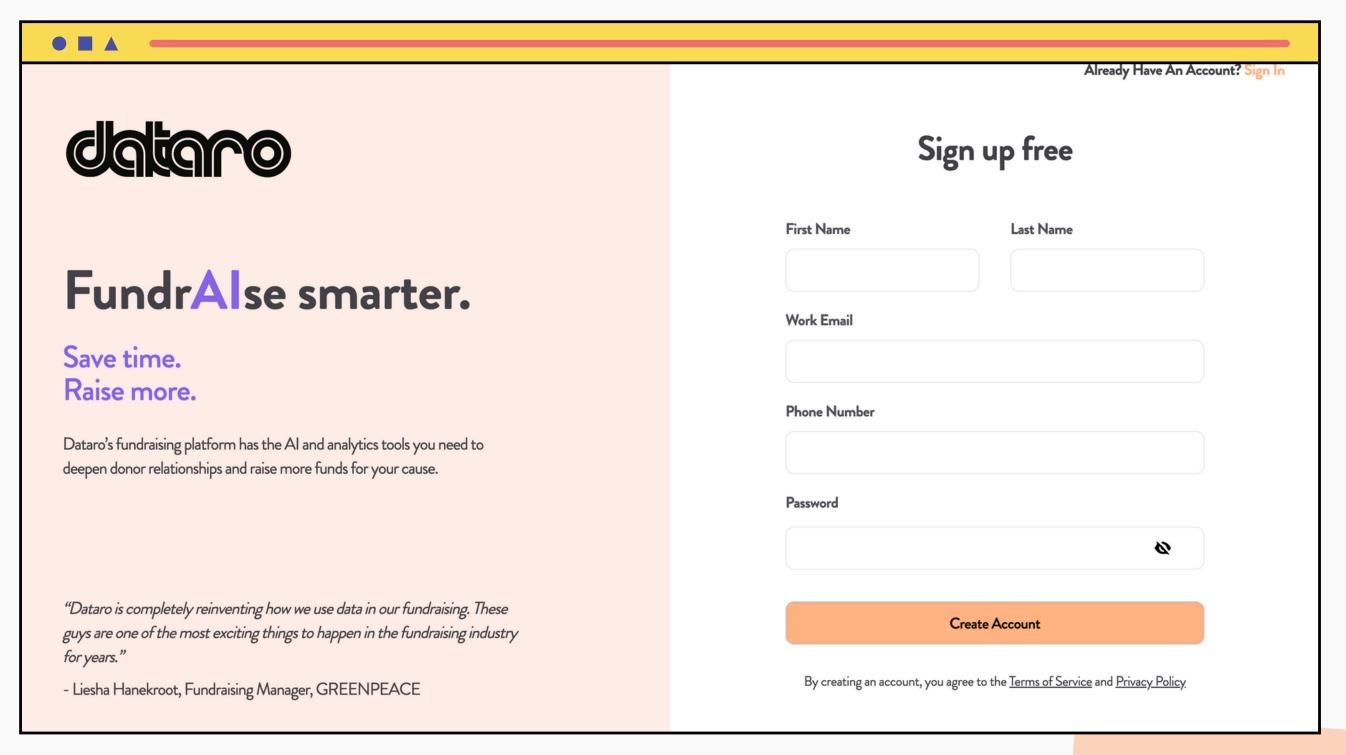
There are 1000's of Al tools



Dataro is the only software built specifically for nonprofit fundraising that contains both Predictive and Generative Al



Get started for free www.app.dataro.io







7 DAYS FREE

Al Assist

(Generative AI)

- Generate new ideas
- Write first drafts
- Email subject lines
- Personalize donor comms

Recommendations



Predictive Al

- Predictive Al needs lots of data (at least 10,000 donors (total, not active) and >2 years of historical data).
- Predictive Al requires oversight and should not be left unchecked. Lean on support if you are not confident in this

Generative Al

- Generative Al can hallucinate things that are not real / true. Be sure to fact check
- Generative Al can mirror society's biases (inc racial, gender etc).
 Check output for bias.
- Some things unresolved (incl attribution and copyright)



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Final thoughts

"Al can accurately predict the next step on your donors journey so you know who to reach out to, when, why, how and what to say!"

Thank you! Tim Paris tim@dataro.io

Try for free www.app.dataro.io

Dataro Predict

(Predictive AI)

become a recurring giver

Al Assist

(Generative AI)



Bonus: Al in fundraising (coming soon)

Powerful technology I wouldn't recommend deploying (yet)



Image creation

- Instant stock photos with brand
 Images tailored to donors interests



Donor chat (online, voice, sms)

- Chatbots using real voices to cut costs and increase engagement
 Online Q&A for donor support



Create custom brand and impact videos quickly and easily

Bonus: Al in fundraising (coming soon)

Analyze your donor data in natural language

Your burning analytics questions ①

What is my RG churn rate this year compared to last year? What are the biggest driving factors behind churn?

Analytics Answer









- RG churn rate refers to the percentage of recurring donors who did not renew their support this year
- Assuming "biggest driving factors behind churn" refers to the reasons why recurring donors did not renew their support

Question:

In year to date (January 1, 2023 - May 1, 2023), what is my RG churn rate compared to last year? What are the biggest driving factors behind churn?

Answer:

This year, your RG churn rate is 23%. In comparison, last year the RG churn rate was 18%. The biggest driving factors behind churn this year were lack of engagement (45%), financial difficulties (30%), and moving or change in contact information (25%).



Bonus: Al in fundraising (coming soon)

Agents you can give goals to achieve, not tasks to complete

