



# Perspectives on turning around Kickstarter for long-term growth

Alfonso Alday, Allison Bass,  
Dylan Juarez, Prakash Rao, Franklin Tan

BANA 5160 Capstone Project | Final Presentation

10-AUG-2023

# Meet Our Team

---

## Consultants



**Allison Bass**

*Senior Analyst,  
Analytics & Insights  
@ Instacart*



**Dylan Juarez**

*Senior Analyst,  
Customer Strategy &  
Analytics  
@ The Home Depot*



**Prakash Rao**

*Director, Digital  
Strategy, Cardiac  
Rhythm Management  
@ Medtronic*



**Franklin Tan**

*Data Science  
Consultant  
@ Tan Consulting LLC*



**Alfonso Alday**

*Global Procurement  
Officer, IT Procurement  
@ Hunter Douglas, Inc.*



**Bruce Kornfeld**

*Chief Marketing and  
Product Officer  
@ StorMagic*

## Industry Coach



# Agenda

---

Company Background, Problem Statement, and Key Questions

Classification Methodology and Model

---

Key Findings and Strategic Implications

---

Recommendations and Next Steps

---



# Kickstarter is a public benefit online crowdfunding platform for creative projects

## COMPANY OVERVIEW

---

### Value Proposition

Project creators use the platform to raise money for their creative goals, while backers support creators by investing in projects. Creators choose what backers get in return for their contribution (e.g., a handwritten note).

### Profit System

Using an all-or-nothing model, Kickstarter captures 10% of total funds raised for successful projects (5% from backers, 5% from creators).

### Critical Resources

Kickstarter has technology expertise across development, design, and customer support. They also have a strong brand reputation and vast backer network - 22,304,080 total backers since their launch in 2009.



# Over half of all Kickstarter projects fail, which impedes growth and brand reputation

## PROBLEM STATEMENT

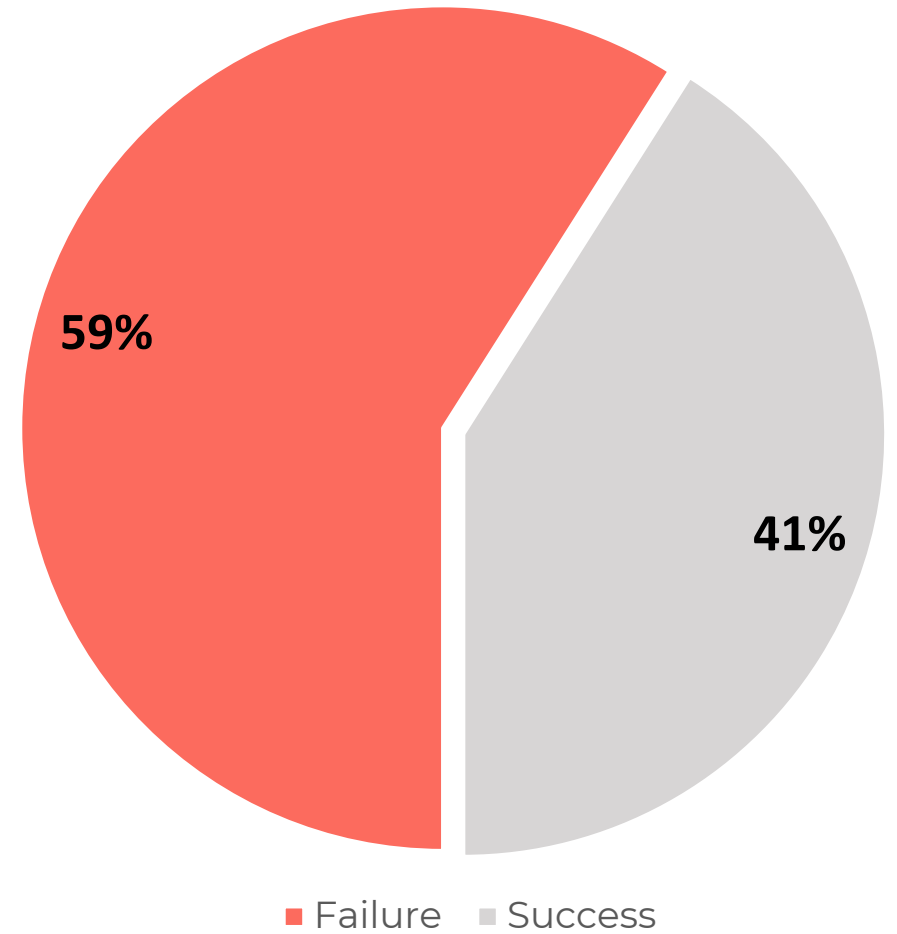
**59%** of Kickstarter projects fail, which may lead to:

Decreased satisfaction and trust among backers, making them less likely to re-use the platform in the future.

Frustration and potential defection from creators who spent a lot of time, effort, and personal funds on their projects.

Increased risk of creators choosing to work with competitors\* (e.g., Indiegogo, WeFunder) on future projects.

Lost revenue for Kickstarter, since the platform captures 10% of total funds raised for successful projects.



\*see appendix for detailed competitive analysis



## Kickstarter leaves ~\$4.2M in revenue on the table every year due to failed projects

WHY IT MATTERS

---

$$\text{\$41,785,714} \times 10\%$$

average annual unsuccessful pledged dollars                      Kickstarter's share

$$= \text{\$4.2M}$$

missed annual revenue opportunity

Total unsuccessful pledged dollars was \$585M (found on [www.kickstarter.com/help/stats](https://www.kickstarter.com/help/stats)), which we divided by Kickstarter's lifespan of 14 years to obtain a yearly average. Average annual unsuccessful pledged dollars is unweighted – missed annual revenue opportunity is likely higher in recent years due to higher number of projects.





# Understanding what impacts failure can help Kickstarter with value capture

## KEY QUESTIONS

### KEY QUESTIONS

What factors impact **project failure**? How can Kickstarter leverage this information to increase project success and achieve long-term growth?

#### SEASONALITY

Does seasonality play a role in project failure?

#### BACKERS

Does number of backers have a significant impact on a project's likelihood of failure?

#### FUNDING GOALS

Are projects with higher funding goals at an increased risk of project failure?

\*We identified these three sub questions after proving/disproving several hypotheses (failure rate by category, duration of projects, and backer tipping points) using a LightGBM model and seasonal decomposition



# Agenda

---

Company Background, Problem Statement, and Key Questions

Classification Methodology and Model

Key Findings and Strategic Implications

---

Recommendations and Next Steps

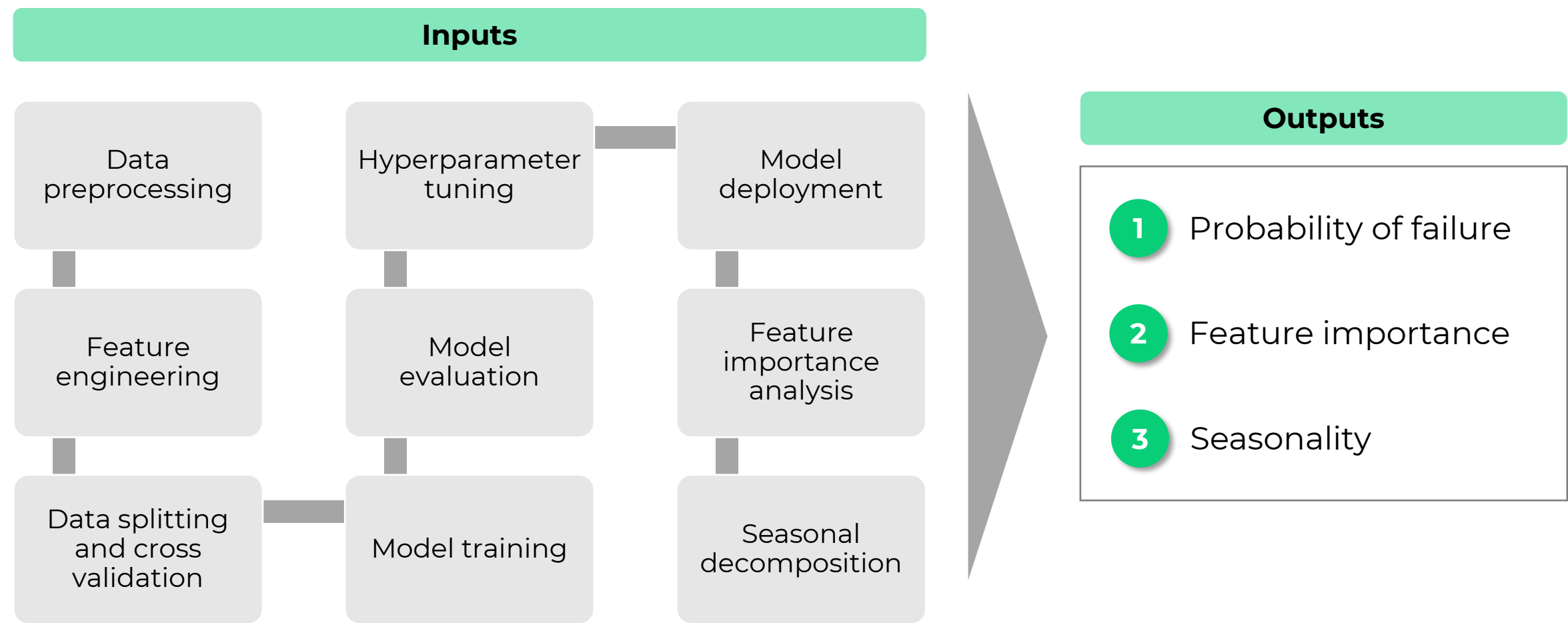
---





# To answer our key questions, we leveraged Kickstarter Data to understand project failure

## CLASSIFICATION METHODOLOGY

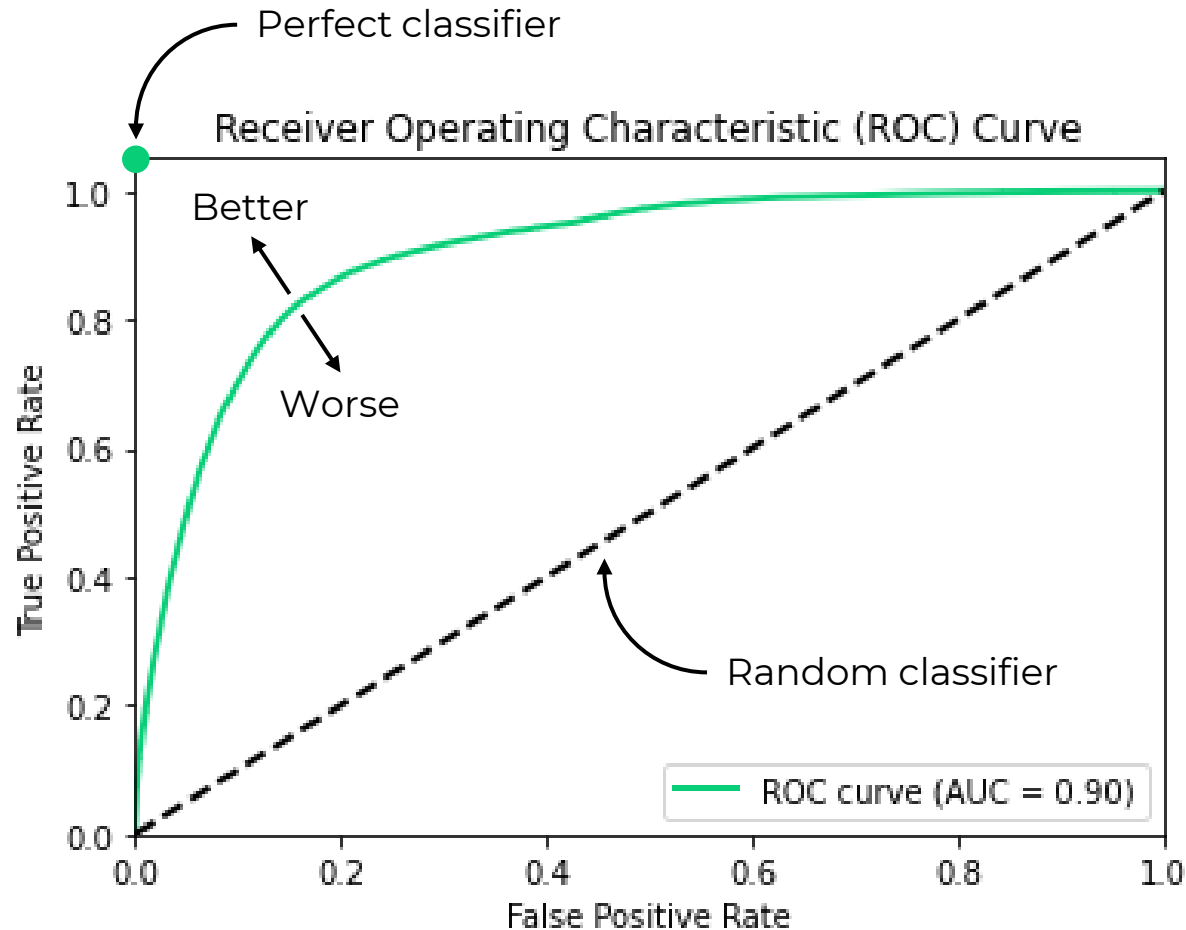


We made the following assumptions: non-collinearity; features are relevant; data is non-biased and error-free after cleaning; externalities are accounted for;



# We developed 3 models; LightGBM was the most performant

## MODEL OVERVIEW AND APPROACH



# 94% accuracy

Logistic regression and Decision Tree achieved 92% and 90% accuracy, respectively



# Agenda

---

Company Background, Problem Statement, and Key Questions

---

Classification Methodology and Model

Key Findings and Strategic Implications

Recommendations and Next Steps

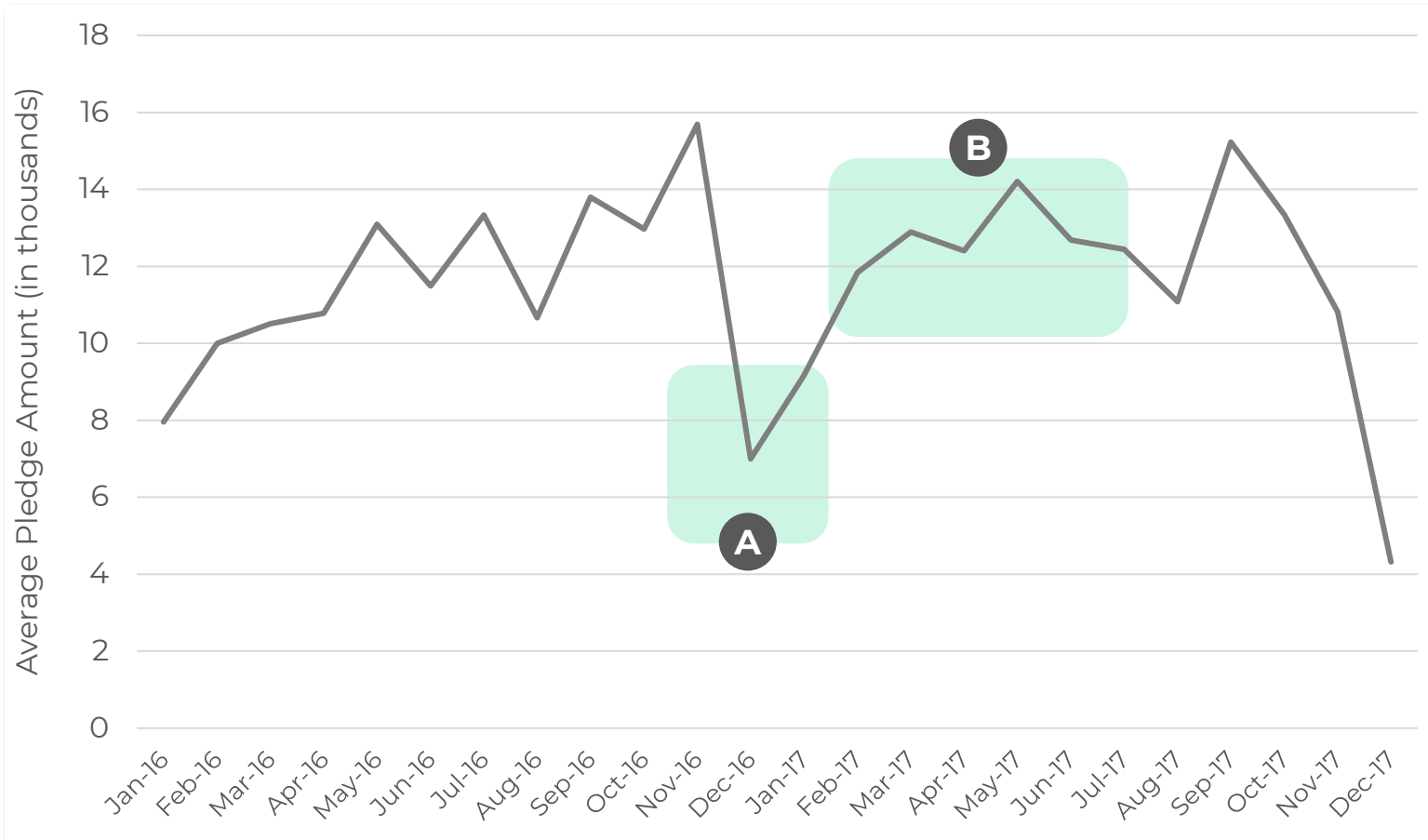
---



# Our analysis uncovered three main findings to guide Kickstarter's future strategy

## KEY FINDINGS (1/3)

### 1 Average pledge amount and number of backers follows a seasonal pattern



**A** December consistently shows the lowest average pledge amount and backer count, indicating a less favorable time for campaigns.

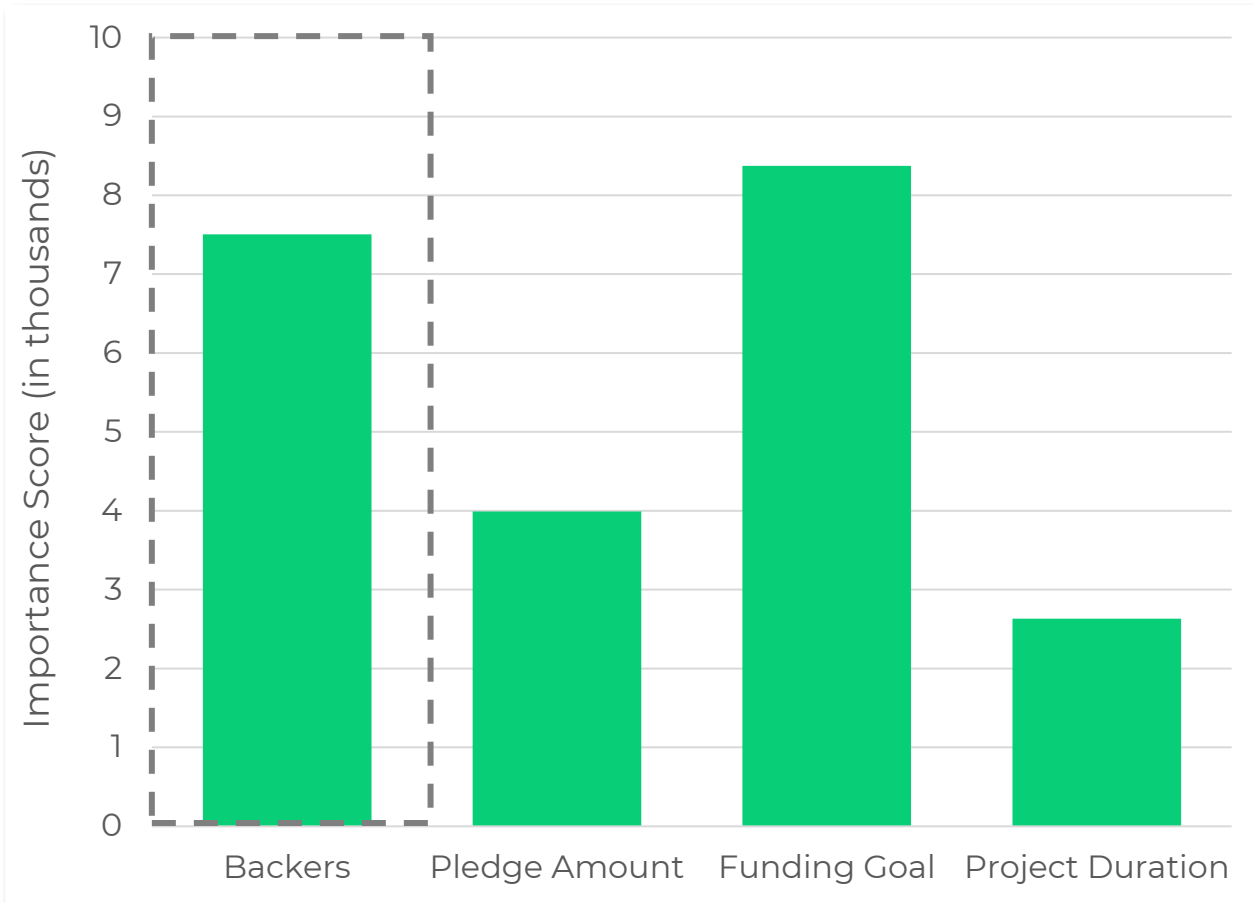
**B** Average pledge amount and backer count sees a strong uptick in January and remains relatively stable throughout the following months.



# Our analysis uncovered three main findings to guide Kickstarter's future strategy

## KEY FINDINGS (2/3)

### 2 Number of backers is one of the most important drivers of success



#### More Organic Backers

Kickstarter should pursue strategies that attract and engage **more organic backers** to their platform.



#### Increased Likelihood of Backing

A high initial backer count on a project acts as **social proof**, increasing the likelihood of additional backers.



#### Project Success

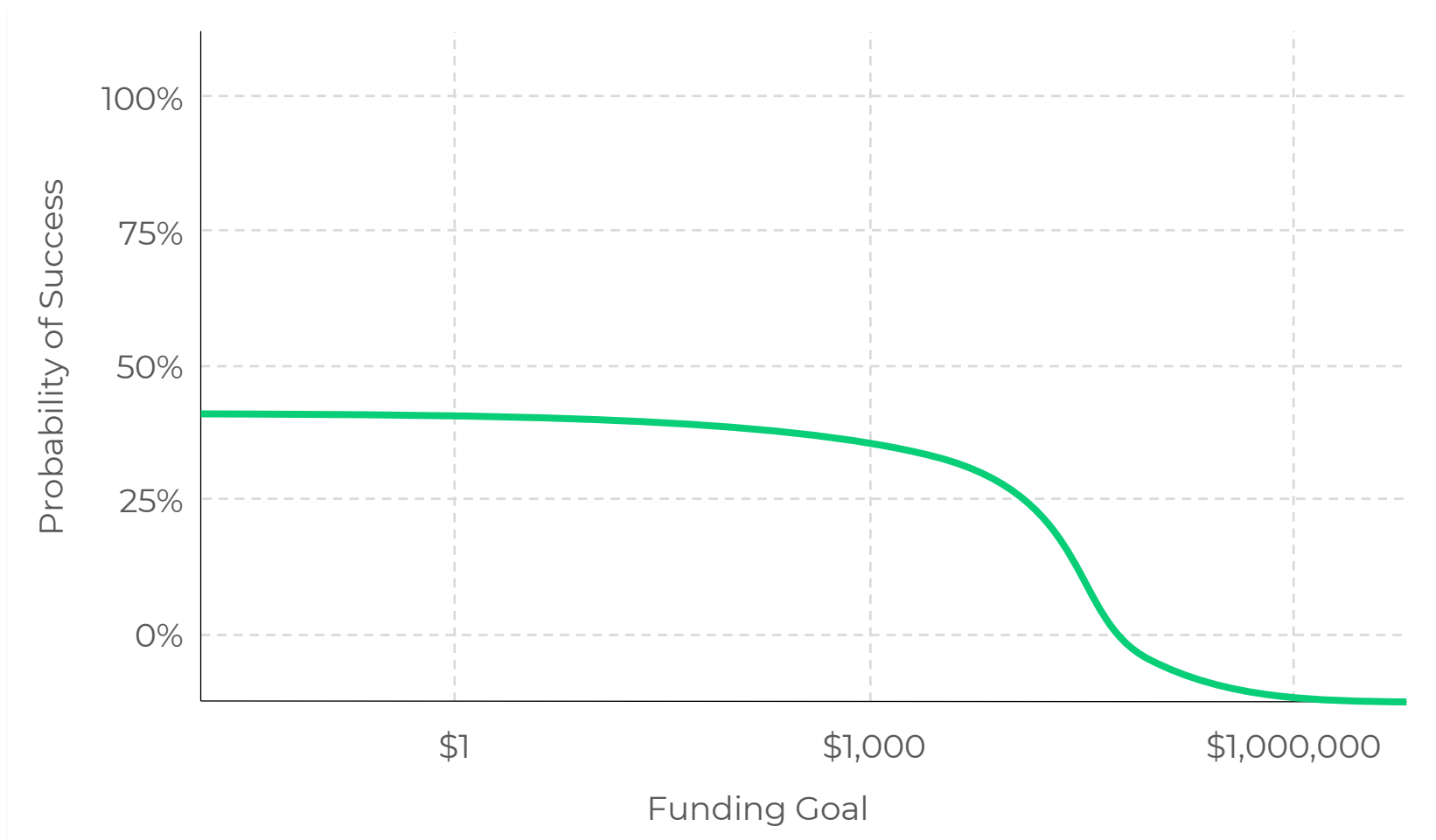
Higher backer count contributes to achieving this goal, as each backer's contribution moves the project **closer to its funding target**.



## Our analysis uncovered three main findings to guide Kickstarter's future strategy

KEY FINDINGS (3/3)

### 3 Projects with higher funding goals are less likely to succeed



This finding highlights the importance of project creators setting **realistic and attainable funding goals**.



# Kickstarter can modify their go-forward strategy to increase likelihood of success

## STRATEGIC IMPLICATIONS

### Where should Kickstarter be headed?

Use data to steer the platform experience to ensure the best possible project outcome and network effects under the optimal conditions

### What will Kickstarter need to deliver?

Attract more organic  
backers to increase  
overall success rate

Help creators set more  
realistic project goals

Adjust marketing  
activities based on  
seasonality trends

### How can Kickstarter make it happen?

- **Combat Seasonality** Attempt to defer high-risk projects until optimal months to increase likelihood of success and higher backer participation
- **Optimize Goals** Provide recommendations to creators to ensure project goals are structured toward successful outcomes
- **Increase Backers** Curate personalized marketing activities around high-value backer segments
- **Drive Engagement** Introduce incentives to creators to launch with Kickstarter marketing events





# Agenda

---

Company Background, Problem Statement, and Key Questions

---

Classification Methodology and Model

---

Key Findings and Strategic Implications

Recommendations and Next Steps



# Kickstarter has options to reduce their project failure rate

## RECOMMENDATIONS (Part 1)

### Limit Off-Season Projects

*Combat seasonality*

**Given our model's level of accuracy,** we propose to flag all projects at risk of failure and offer the creators 2 options:

- ☐ **Accept a 7% fee** if the project is successful in exchange for enhanced marketing
- ☒ **Wait until seasonality improves** to increase their likelihood of success in exchange for an incentive

### Provide Goal Recommendations

*Optimize goals*

**KICKSTARTER** ← Digital Art Project Preview Save

Funding goal


Set an achievable goal that covers what you need to complete your project.

Funding is all-or-nothing. If you don't meet your goal, you won't receive any money.


Goal amount

\$

50000



Consider lowering your goal amount to increase your likelihood for success using Kickstarter's goal optimization calculator.



< Back to Basics Save



# Kickstarter has options to reduce their project failure rate

## RECOMMENDATIONS (Part 2)

### Digital Marketing Campaign

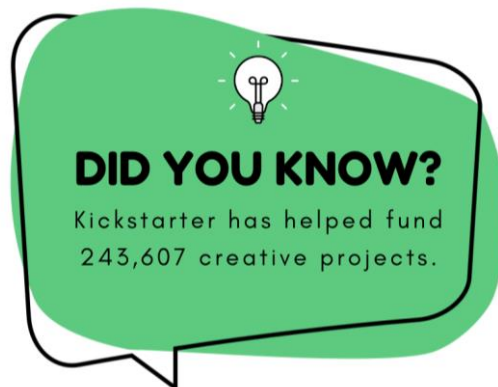
*Increase backers*

#### Goal:

- Target potential backers to increase awareness and drive more traffic to the platform

#### Suggested tactics for acquisition:

- Highlight Kickstarter's mission/vision
- Provide creator testimonials
- Create tailored content depending on where backers are in the marketing funnel



### One Day Promotions

*Drive engagement*

#### Reduced Fees

Kickstarter takes a smaller share of money raised on a specific day

#### Enhanced Backer Rewards

Kickstarter contributes to more enticing backer rewards

#### Top Backer Highlights

At the end of the day, Kickstarter recognizes top backers

These tactics are based on reasonable assumptions



# As an example, Kickstarter can attract more organic backers through digital marketing

## RECOMMENDATIONS (Part 3)

### Introducing Green Day!

A month-long digital marketing campaign in December culminating in a unique one-day “funding spree” known as Green Day



# Our analysis uncovered important findings, there is an opportunity to delve deeper

## POSSIBLE NEXT STEPS

---

### Strengthen creator and backer **segmentation**

- Requires Kickstarter's internal data (creator/backer demographics, psychographics, behavioral, etc.)

### Determine **“tipping points”** for project days, backers, and pledge amounts

- Daily project-level panel data could help achieve this objective

### Reduce the effect of **confounders**

- Additional project details would help determine if there are other factors that contribute to failure

### Conduct market research for creator/backer **incentives**

- Survey, experimental analysis, and consumer data is needed to enhance recommendations

### Engage Kickstarter stakeholders to determine **how to operationalize**



# APPENDIX

# Our dataset had 13 total columns with 378,661 rows

## DATASET

---

ID: Internal Kickstarter ID  
Name: Project name  
Category: Project category  
Main\_Category: Main category of the campaign  
Currency: Currency used for Kickstarter campaign  
Deadline: Crowdfunding deadline  
Launched: Launch date of the campaign  
Pledged: Amount pledged by the crowd  
State: failed, successful, canceled, suspended  
Backers: Number of people backing the project  
Country: Country where the campaign was created  
USD\_Pledged\_Real: Pledged amount in USD  
USD\_Goal\_Real: Fundraising Goal amount in USD

Project States:

Failed: Projects that fail to reach their goal by the deadline.  
Live: Active projects seeking funding.  
Successful: Projects that have reached their goal.  
Canceled: Projects canceled by the creator.  
Suspended: Projects violating platform terms.





# Other crowdfunding platforms have similar experiences but different target markets

## COMPETITIVE ANALYSIS

	KICKSTARTER	INDIEGOGO	WEFUNDER
All or nothing?	Yes	No	Yes
Fee model	<ul style="list-style-type: none"><li>• 5% fee from funding total if campaign is successful</li><li>• 5% processing fee from each pledge</li></ul>	<ul style="list-style-type: none"><li>• No set-up fees</li><li>• 5% overall platform fee</li><li>• 3% plus 30¢ per credit card transaction</li><li>• 3-5% for PayPal transactions</li></ul>	<ul style="list-style-type: none"><li>• 7.5% of the total fundraise, only if successful</li></ul>
Generally used for	Projects pertaining to art, music, film, technology, etc.	Wide variety of industries with lower funding goals	Early stage startups that want to raise funds from unaccredited investors seeking to purchase equity

References  
1) <https://grasshopper.com/resources/tools/crowdfunding-platforms-kickstarter-gofundme-indiegogo/>  
2) <https://help.wefunder.com/getting-started-for-founders/303756-how-does-wefunder-make-money>



# Limited causal insights, hidden population nuances, and unvalidated tactics

## CHALLENGES

---

### 1 **Lack of temporal information and experimental design hinders the establishment of causal relationships**

The dataset is historical, capturing Kickstarter projects at a single point in time. It lacks temporal information, so it can show associations and correlations between variables, but cannot establish pure causal relationships.

### 2 **Population heterogeneity masks important distinctions that may influence the outcomes**

The dataset may overlook individual differences and variations across subgroups with the population, masking important distinctions that may influence the outcomes.

### 3 **More information is required to validate one day promotion tactics**

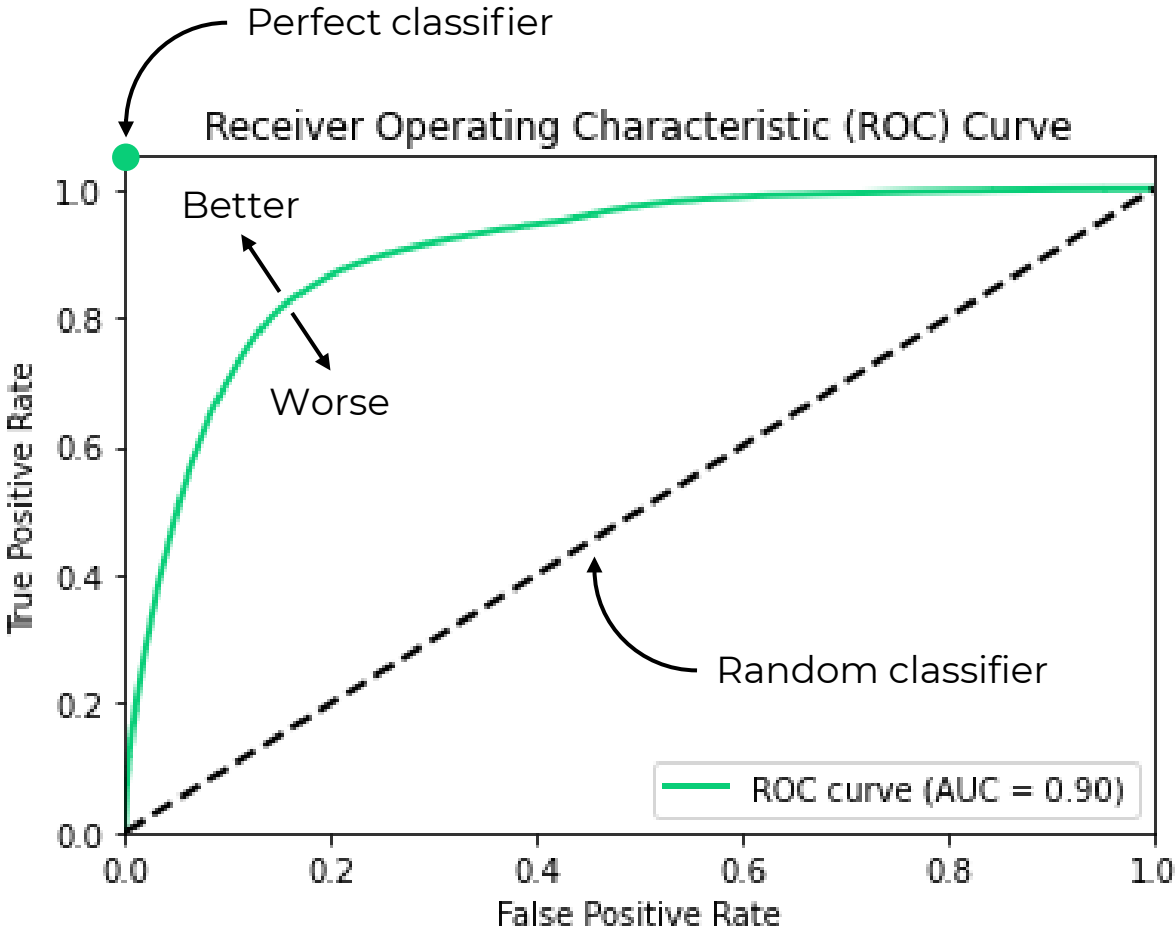
This recommendation uses reasonable assumptions to achieve increased engagement.

- Reduced fees: Creators & backers respond to an increase in purchasing power.
- Enhanced backer reward: Backers are motivated by better rewards.
- Top-Backer: Backers care about recognition.



# We developed 3 models; LightGBM was the most performant

## MODEL OVERVIEW AND APPROACH



94% accuracy

	Project Success	Project Failure
Precision	87%	99%
Recall	98%	91%
F1-Score	92%	95%



# **There are learnings from this analysis of Kickstarter that are extensible**

## FURTHER EXPLORATIONS

---

- How producers and consumers connect in platform models can apply to e-commerce, healthcare, and social media
- Seasonality plays a role in several industries and should not be disregarded
- Creating data-driven strategies can inform decision making and affect business outcomes
- Rapid analysis with limited information can still inform critical business decisions

