

HOW TO

CROWDFUNDING A SUCCESS STORY

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Britta & Raphaela

TABLE OF CONTENT

01. Introduction

What about kickstarter?

02. Data

Most important features & label

03. Be prepared

Success factors before launch

04. During runtime

Success factors during runtime

05. Prediction

Results from different models

06. Future Work

What to come?

01

What about kickstarter

- Kickstarter is a funding platform for creative projects - all-or-nothing model
- From films, games and music to art, design and technology
- As a creator you are responsible for setting your financial goal & fundraising deadline



01

What about kickstarter

*Crowdfunding is an incredibly powerful tool
to build communities and
raise funds.*

60.97% of all projects were successful
and only **39.03%** failed.

*Dataset from 2009 - 2019

01

What about kickstarter

*If you have a great idea,
going on a platform
like Kickstarter can give you the
necessary push.*

02

Most important features & label

Data

02

Data

- Kickstarter Data from **2009 - 2019**
- **37** columns and **209.222** rows
- Features can be divided into **different groups**: projectinfos, amount / currency, datetime and campaign creation
- A project is successful if the pledged amount is bigger or equal your defined goal

02

Data

Füllfolie? tonsupur?

- A project is successful if the pledged amount is bigger or equal your defined goal.

What can be done to make a project successful?

03

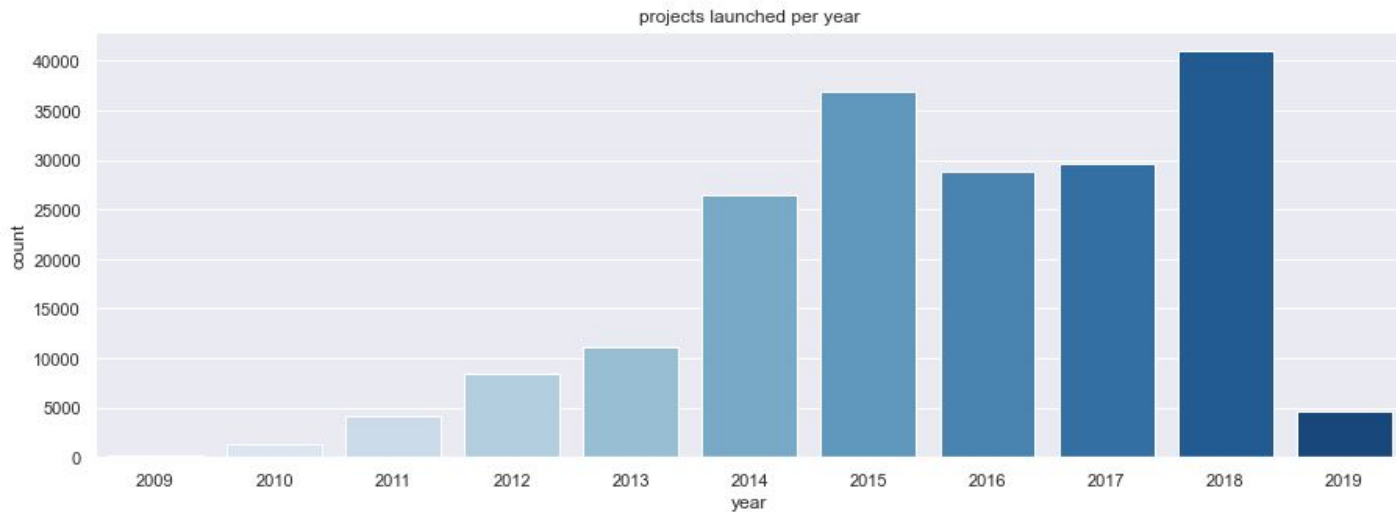
Success before project launch

Be prepared

03

Timing - year

- In 2018 in total 40.942 projects have been launched



03

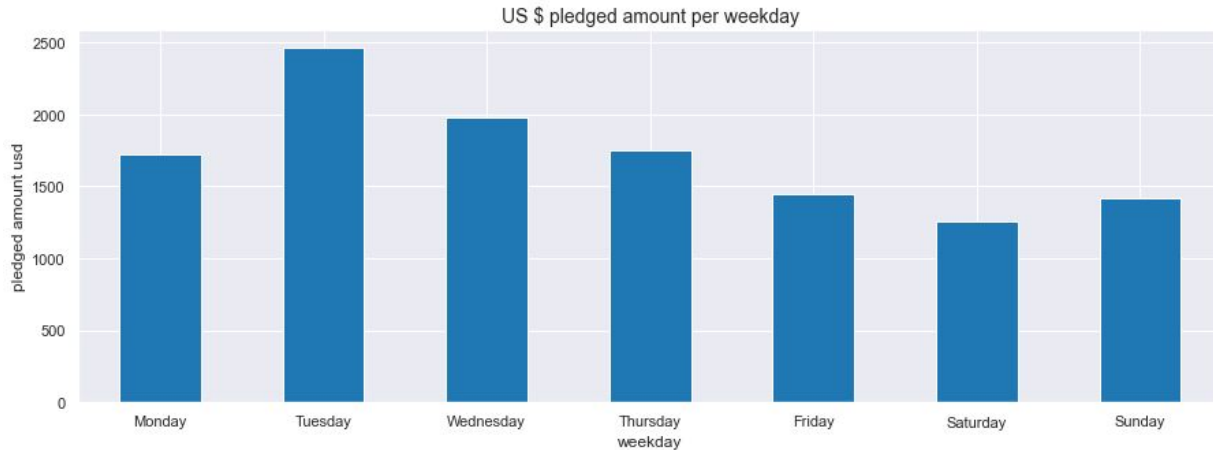
Timing - month

- Most of the **successful projects** were created in the month
 - January: 10.946
 - March: 10.639
 - October: 10.407
- Most of the **projects failed** in the month
 - December 4.672
 - February 5.935
 - November 6.004

03

Timing - weekday

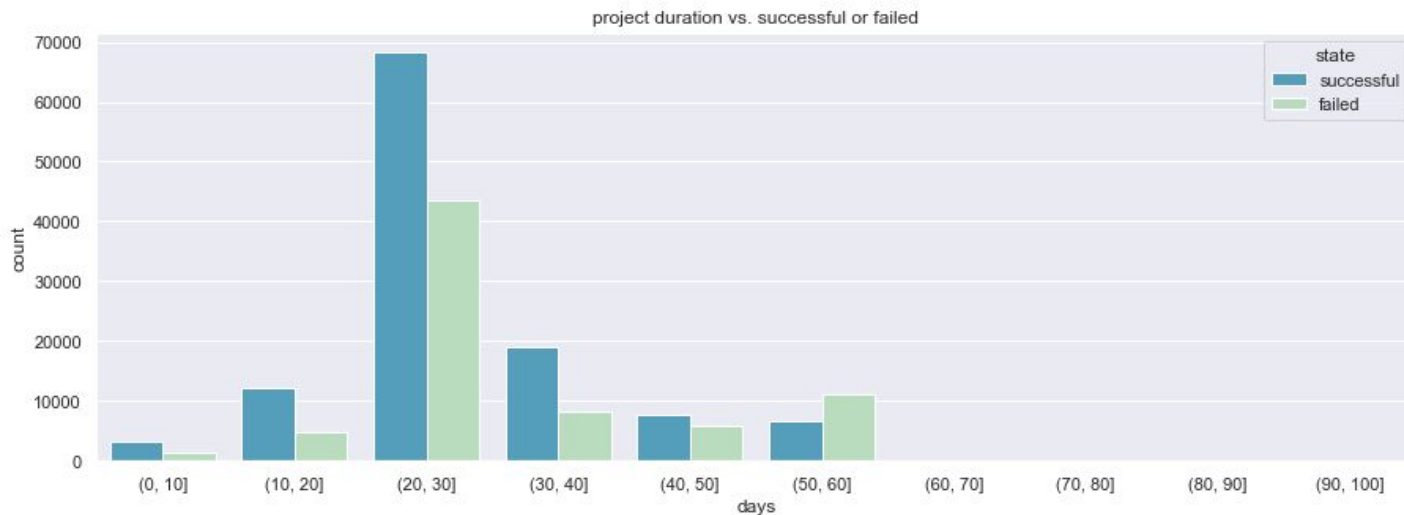
- Most of the **successful projects** were created on **tuesday** (25.385), wednesday (20.836) or monday (20.719)
- **Most money** will be given on **tuesday** , wednesday or thursday



03

Timing - project duration

- In average the **project duration** from launch to end is **30 days** (median)
- Most of the successful projects had a duration **between 20 and 30** days



03

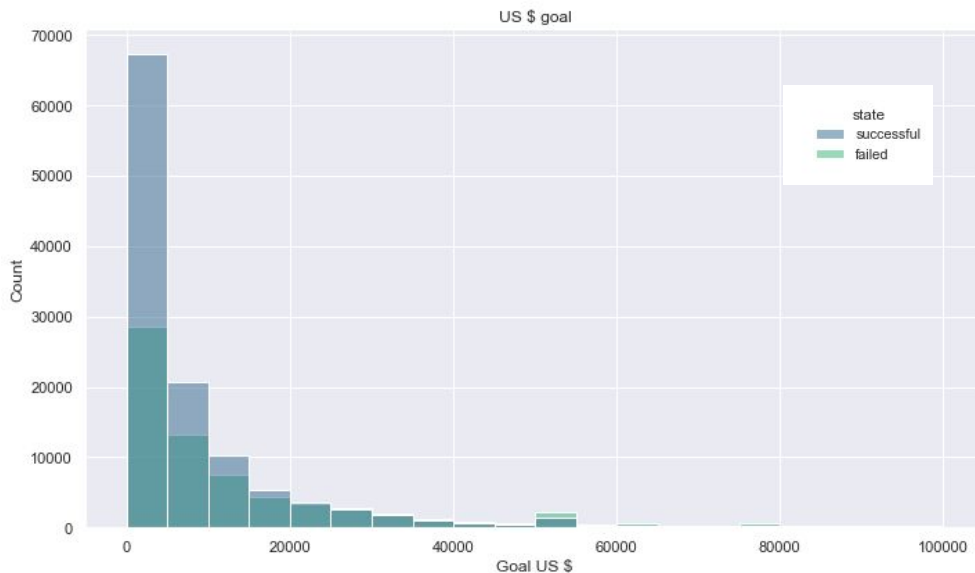
It's all about

Money

03

Money

- Don't be greedy - most of the successful projects do have **a goal up to 20.000 US \$**



03

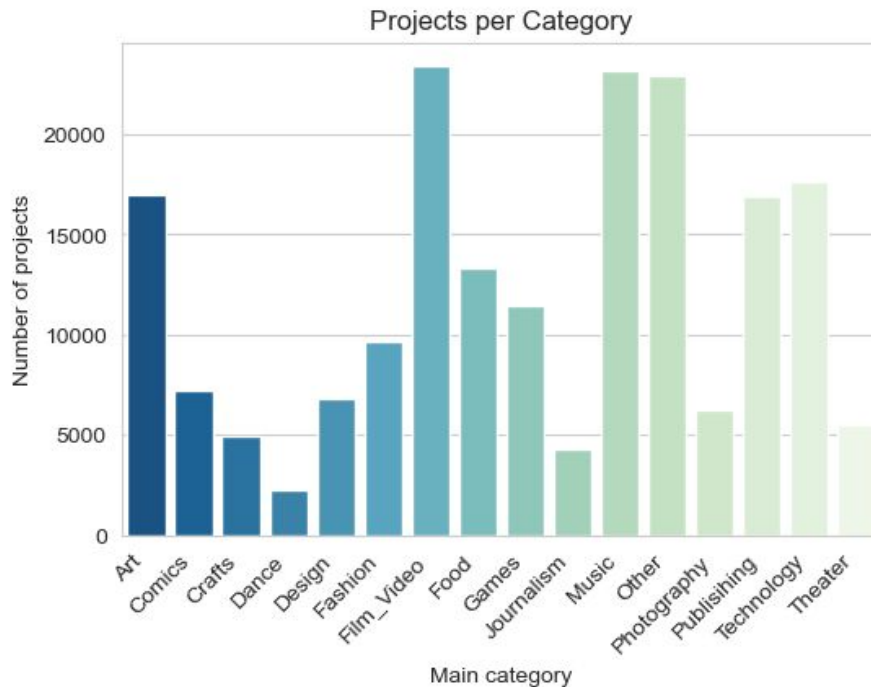
It's all about

The Idea

03

Categories - Distribution

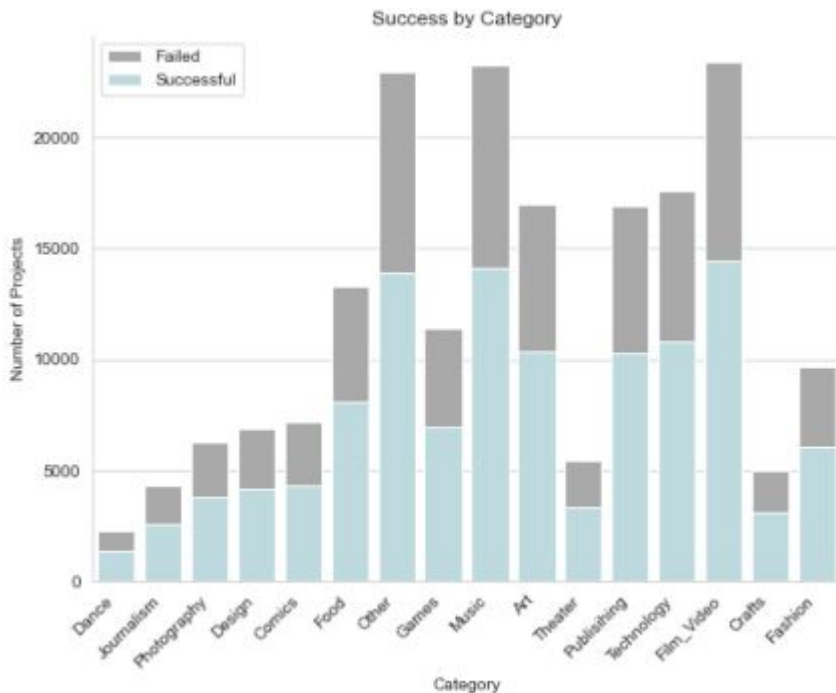
- There are **16** categories
- Some of the categories create **stronger interests** like film & video or music
- **Not a big difference** of success rate for each category



03

Categories - sorted by success rate

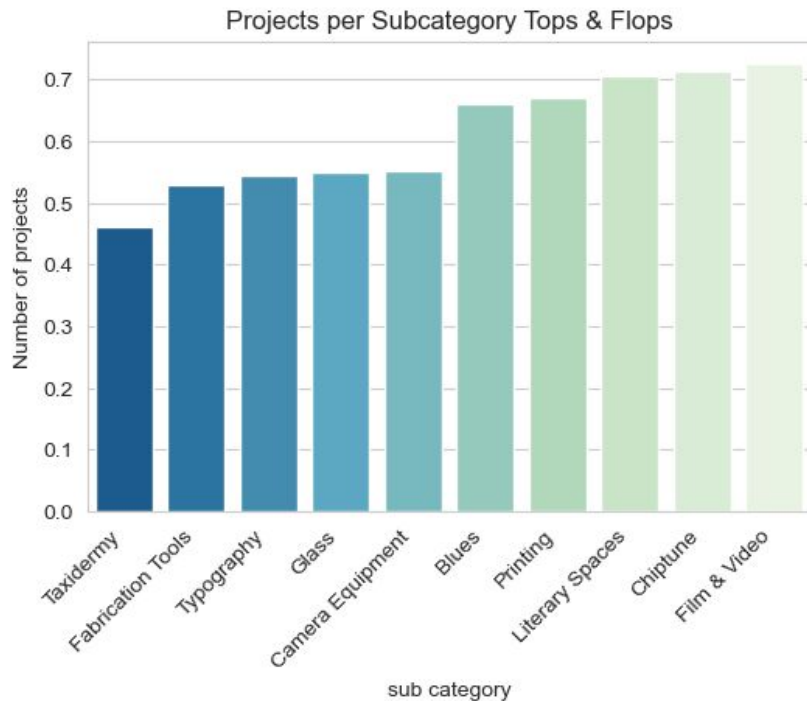
- The most successful category is **Fashion**.



03

Subcategories Top & Flop - Success rate

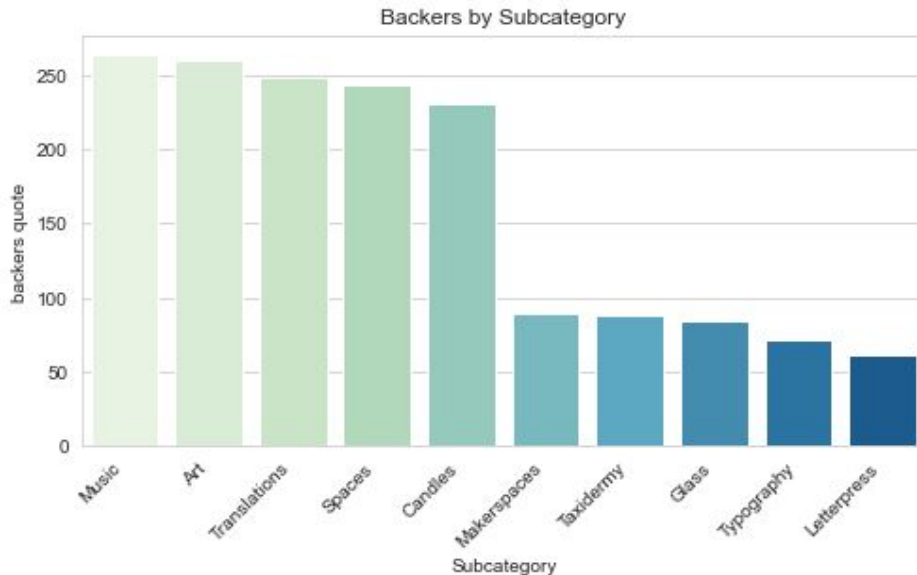
- There are almost **160** subcategories
- The success rate varies a lot - from **46 %** (taxidermy) to **72 %** (film&video)



03

Backersquote Subcategories **TOPS & Flops!**

- The number of backers per project depends on the subcategory!
- The highest values exists for **Music** and **Art** with more than 250 Backers per Project, the lowest value is 60 Backers (**Letterpress**).



03

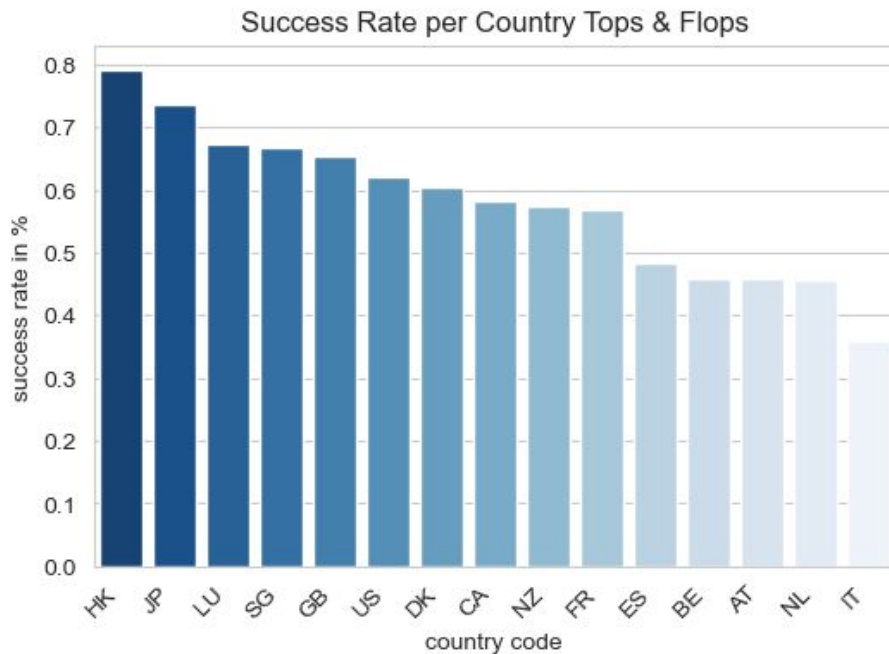
It's all about

The Country

03

- The success rate varies between almost **80 %** (Hongkong) and **36 %** (Italy)
- Nevertheless **72 %** of all projects come from the **US**

Country



03

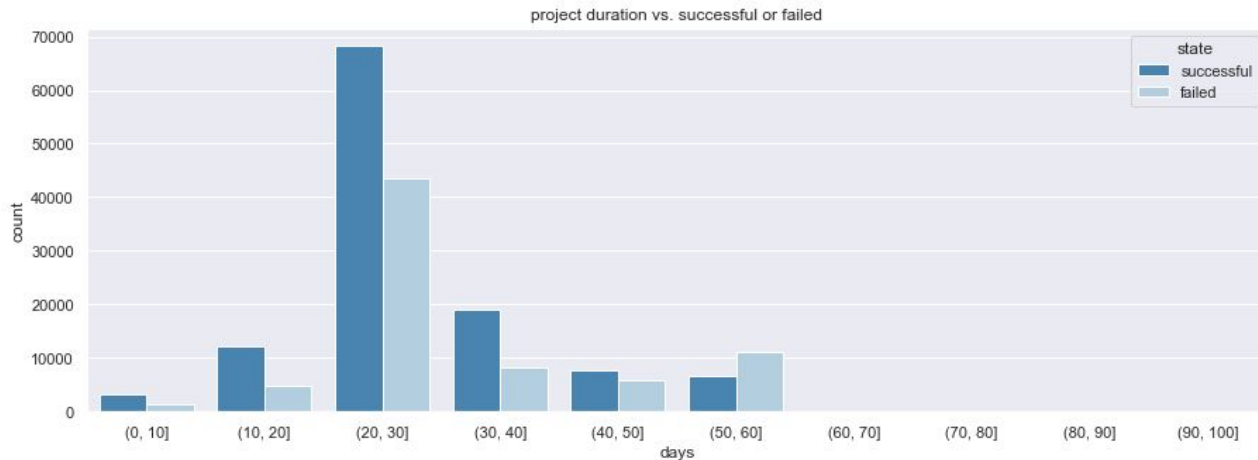
It's all about

Being on point

03

Being on point

- The **length** of your **projectinfo text** is important
- In average the projectinfo does have **124** letters / symbols (median)
- Most of the successful projects do have a length of **120-140** letters / symbols



04

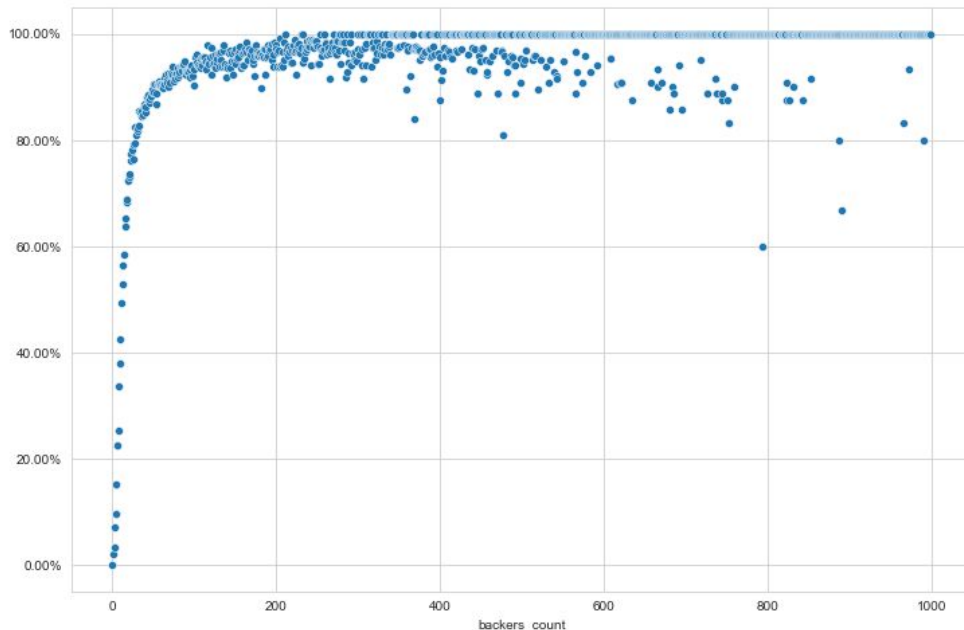
Success factors during runtime

During runtime

03

More **Backers** are better!

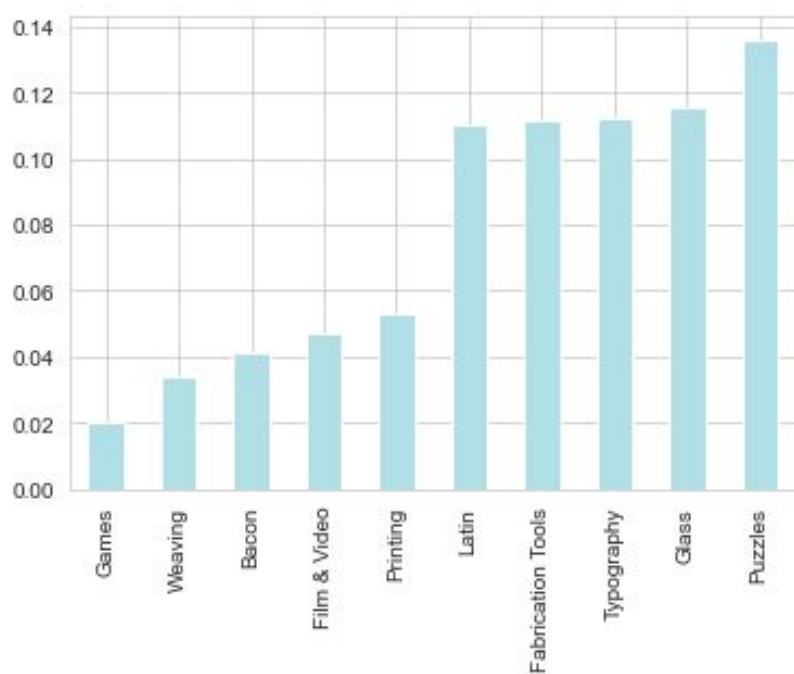
- The success rate of a project highly depends on the number of backers
- Not very surprising, *but what can be done to increase the number of backers?*



03

Zerofollowers

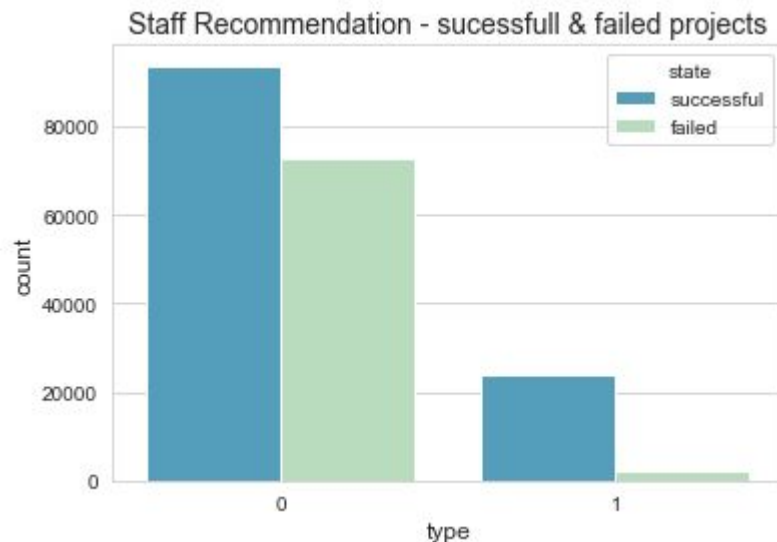
- There are some projects without any backers
- The quote also depends highly on the **subcategory**
- The highest quote exists for **puzzles** (13,6 %), the lowest for **games** (2 %).



04

Staff Recommendation

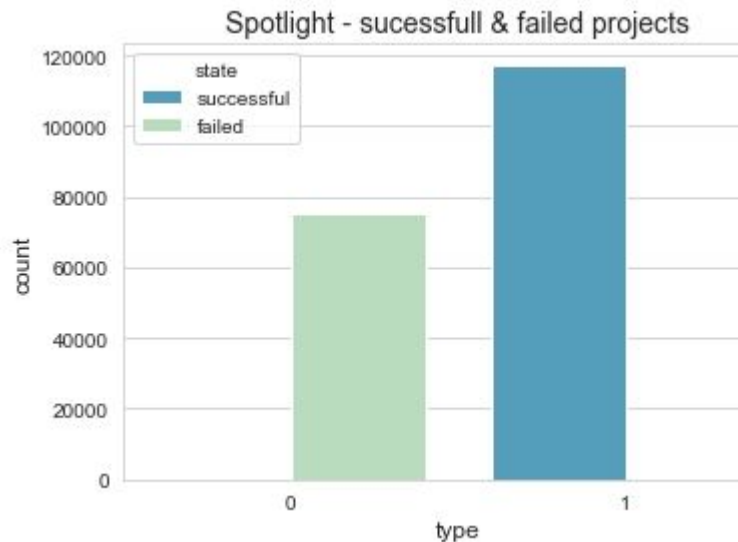
- The fact if a project is recommended by the staff has a huge impact to the success of a project
- Only **9 %** of the projects with staff recommendation failed compared to **44 %** without



04

Spotlight

- Spotlight on - if a project is **highlighted** there is a
- 100 % chance of being successful



To sum it up

Kickstarter campaigns looking to be successful should have a
low goal,
be film / video related,
have a short duration
be launched on a tuesday in january
the right text length.

A good signal during runtime is having
loads of backers, recommendations and a spotlight.

05

Success or failed

Prediction

Prediction

- We've created different models to predict if your project will be successful or not
- With a **accuracy of 70 %** and a **precision of 72%** we can tell you if you are going to be successful or not

06

What to come?

Future work

06

Future Work

- Check the **city**
 - Check the **length and typo** of the projectinfo text (blurb), slug and project name
 - Check **medium**
 - **Hyperparameter** tuning
-

THANK YOU

Do you have any questions?

05

Appendix

Basismodel

After features selection we've chosen the following features for both models:

- `main_Fashion`, `month_launched`, `static_usd_rate`, `day_launched_cat`, `year_launched`, `currency_cat`, `usd_type`, `staff_pick`, `goal_usd_log`, `backers_count`

From beginning the **logistic regression model** had very good accuracy and f1-score of. After hyperparameter tuning, the model's accuracy score could be improved slightly up to 0.90531 and the f1-score could be improved up to 0.92311. Also the precision got better from 0.991286 up to 0.91298.

The **random forest model** also had a an even better accuracy and f1-score. After hyperparameter tuning, the model's accuracy score got wors to 0.93943 and the f1-score got worse as well to 0.95096. Maybe we need to check that. But still very good values.

In this case we used for example the feature *backers_count* and *staff_pick*. In case of the very good results we came up with the result that both of these features can't be known before launching a project. Obviously an easy way to know that we have data leakage is if we are achieving performance that seems a little too good to be true. So we decided to make a new model in the following notebook.

Model

From beginning all models had a quiet good accuracy and a f1-score. After hyperparameter tuning, mostly all the model's accuracy and f1-score could be improved slightly.

AdaBoost

Before:

- Accuracy Score : 0.68868
- Precision Score : 0.70569
- Recall Score : 0.84087
- F1 Score : 0.76737

After

- Accuracy Score : 0.69178
- Precision Score : 0.70675
- Recall Score : 0.84652
- F1 Score : 0.77034

XGBoost

Before:

- Accuracy Score : 0.69827
- Precision Score : 0.70991
- Recall Score : 0.85547
- F1 Score : 0.77592

After

- Accuracy Score : 0.70627
- Precision Score : 0.72649
- Recall Score : 0.83237
- F1 Score : 0.7758

Random Forest

Before:

- Accuracy Score : 0.66067
- Precision Score : 0.67825
- Recall Score : 0.74802
- F1 Score : 0.71142

After

- Accuracy Score : 0.664408
- Precision Score : 0.66777
- Recall Score : 0.795746
- F1 Score : 0.72616

03

Slug length

- Most of the slugs are around 50 letters/symbols
- Which leads also to the most successful projects

