

KickSmarter

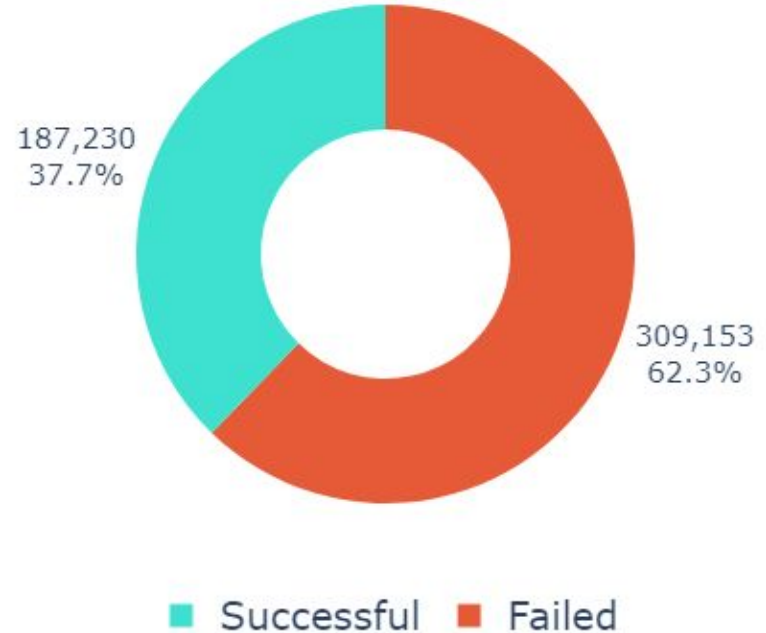
Creating Successful Projects With Machine Learning

Raven Welch

What is Kickstarter?

- Crowdfunding Website
- Founded in 2009
- Focus on new creations
 - Art
 - Film
 - Technology
 - Games

Total Number of Projects On Kickstarter



1.

The Data

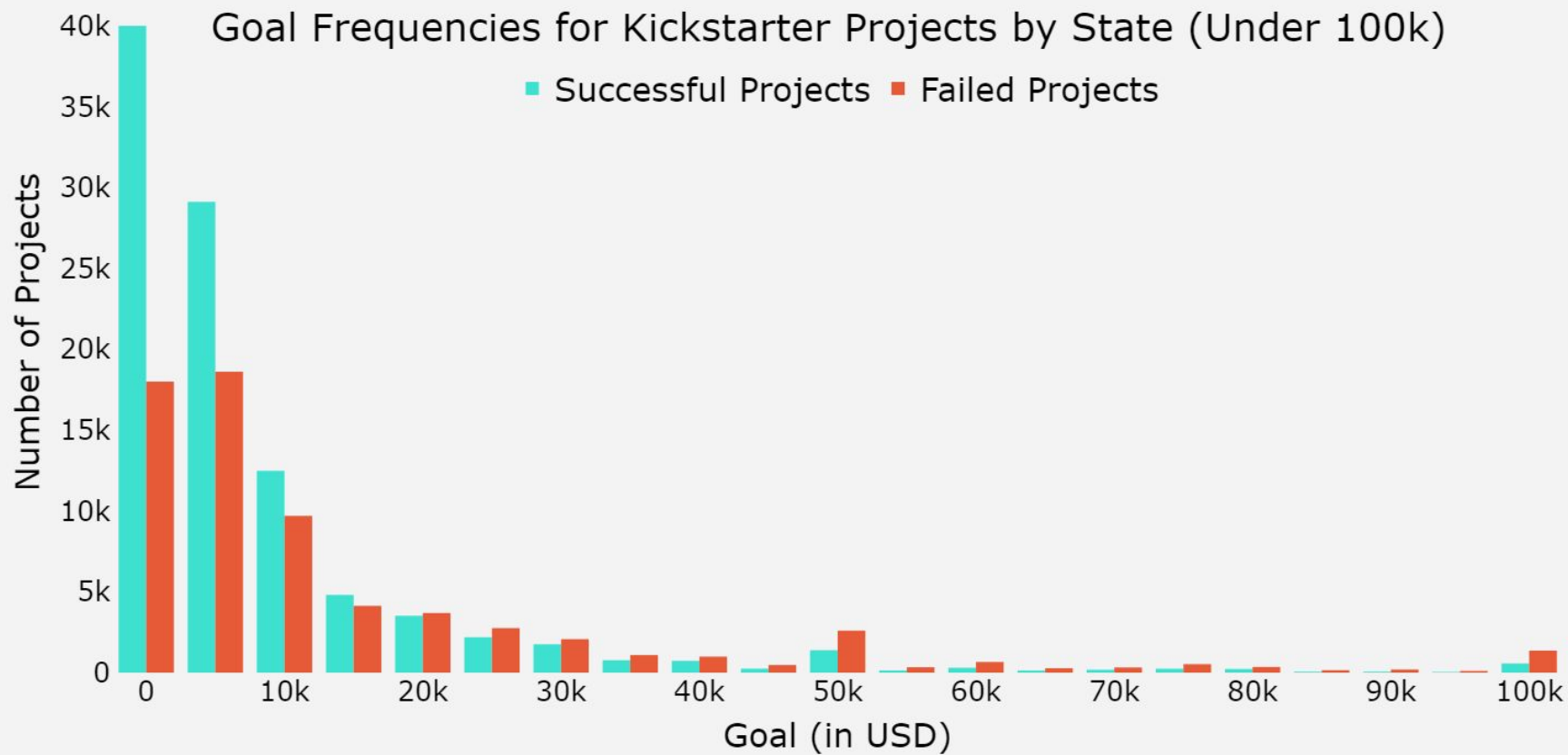
A Quick Peek

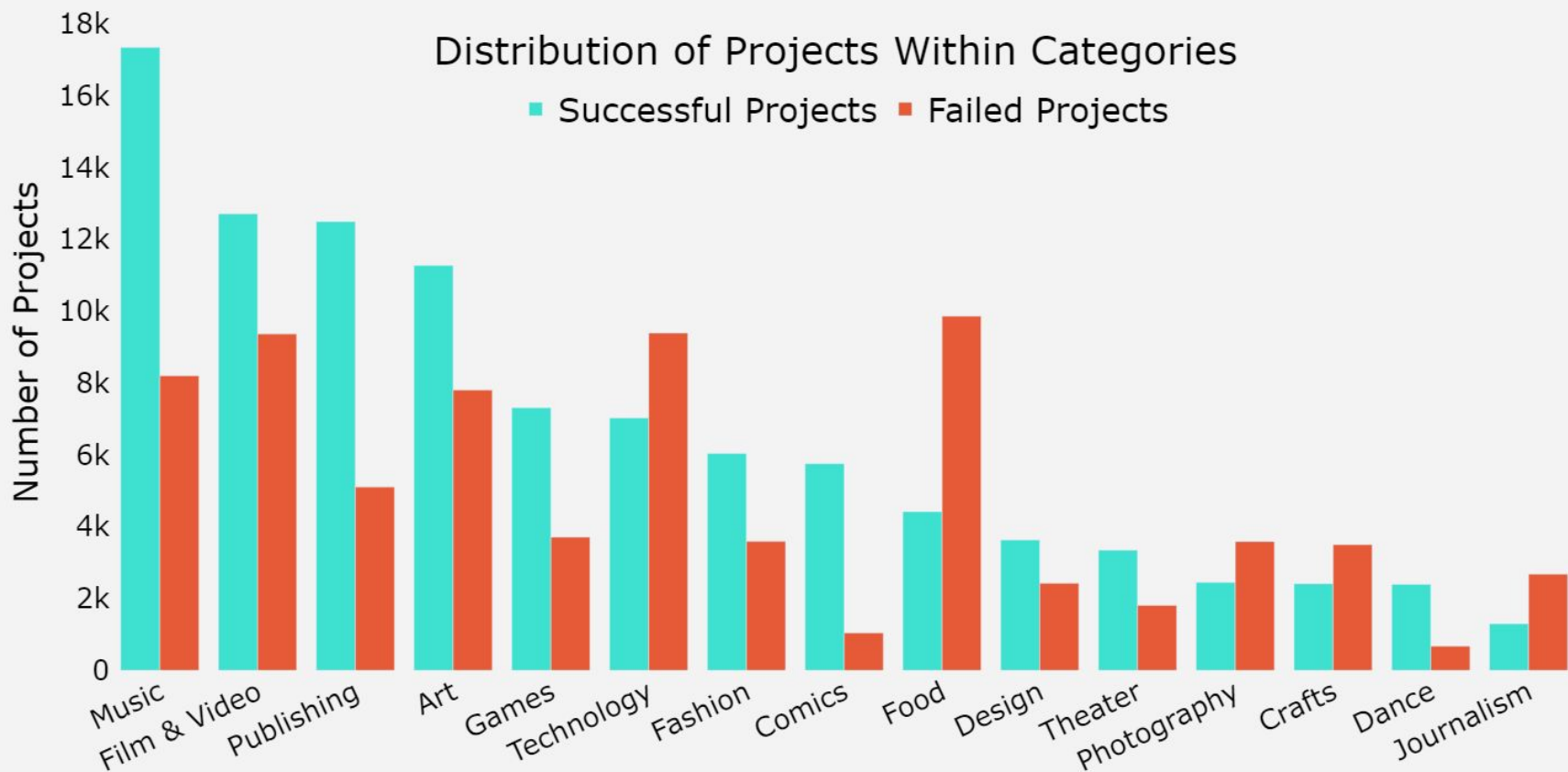
- 172,740 Projects
 - Data collected by webrobots.io (2020-07-16)

100k Successful

72.8k Failed

- Features used included:
 - Start & End Dates
 - Country and Currency
 - Category
 - Project Goal
 - Staff Pick
 - Blurb





2.

The Model

Model Overview

- Model predicts if the project has failed or succeeded
- Tested 13 different models
 - Refined 4
- Selected Best Model
 - Gradient Boosting



“Likely to Succeed”



48

17

Out of **100 Projects**

Correctly Identifies:

48 Successful Projects

25 Unsuccessful Projects

Incorrectly Identifies:

17 Unsuccessful Projects

10 Successful Projects

“Unlikely to Succeed”



10

25

So, what does this mean?

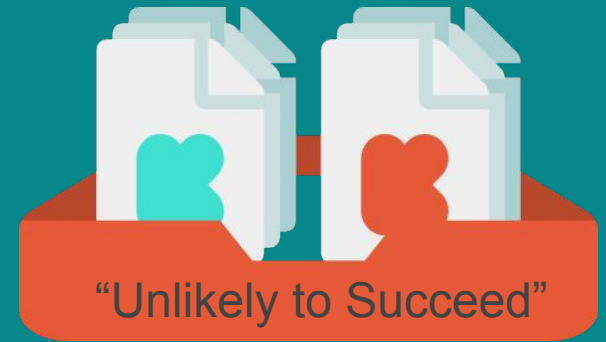


More confident
If not already set,
finalize details used
in the model
Start advertising!

Knowing that the
model is 73%
accurate:

Consider risk!

- Financial Investment
- Prototyping
- Time Investments



More research
Alter details used
with model

Why Apply Machine Learning?

- Less time spent on research, more spent on the project
- Well informed data, using thousands of projects, can back decisions

3.

Moving Forwards

Limitations

- Does not consider objective aspects
- Yearly trends not recognized
- Data used was ~34% of Kickstarter projects
- Limited data, does not include stretch goals

Next Steps

- Adding text processing to analyze project blurbs
- Test creating models using sub-categories
- Refine Models
 - Test using less features
- Test other algorithms

Any Questions?

Find me at...



[Raven Welch](#)



[RavenNHW](#)



[ravenwelch](#)

Credits

- Presentation template by [SlidesCarnival](#)
- Icons created by [Font Awesome Icons](#) and edited by myself
- Data collected by [webrobots.io](#)