

Can Social Media Explain Kickstarter Success?

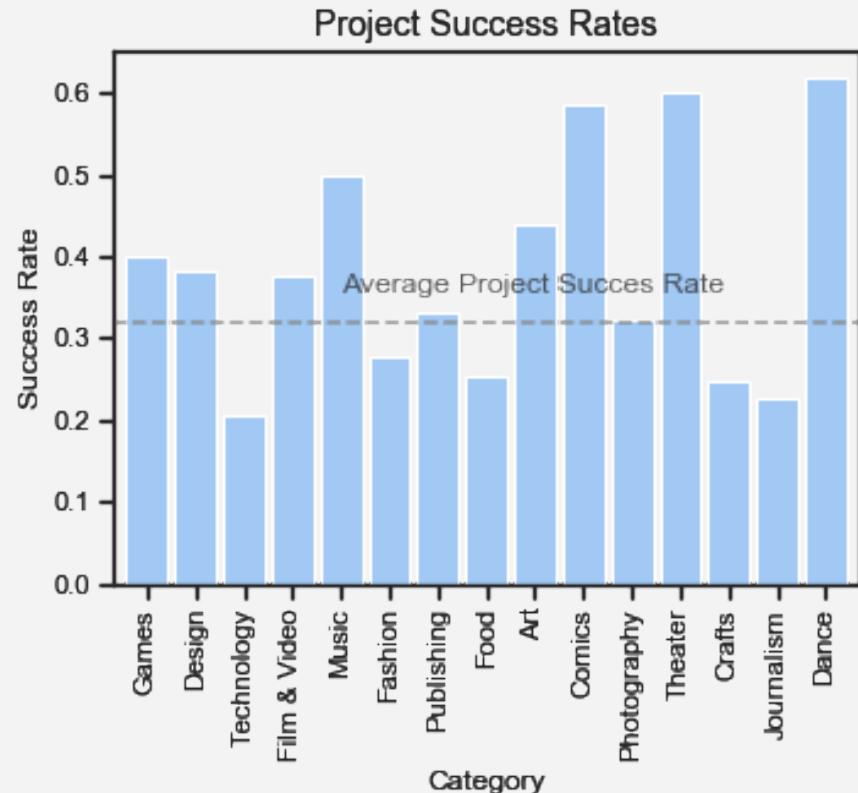
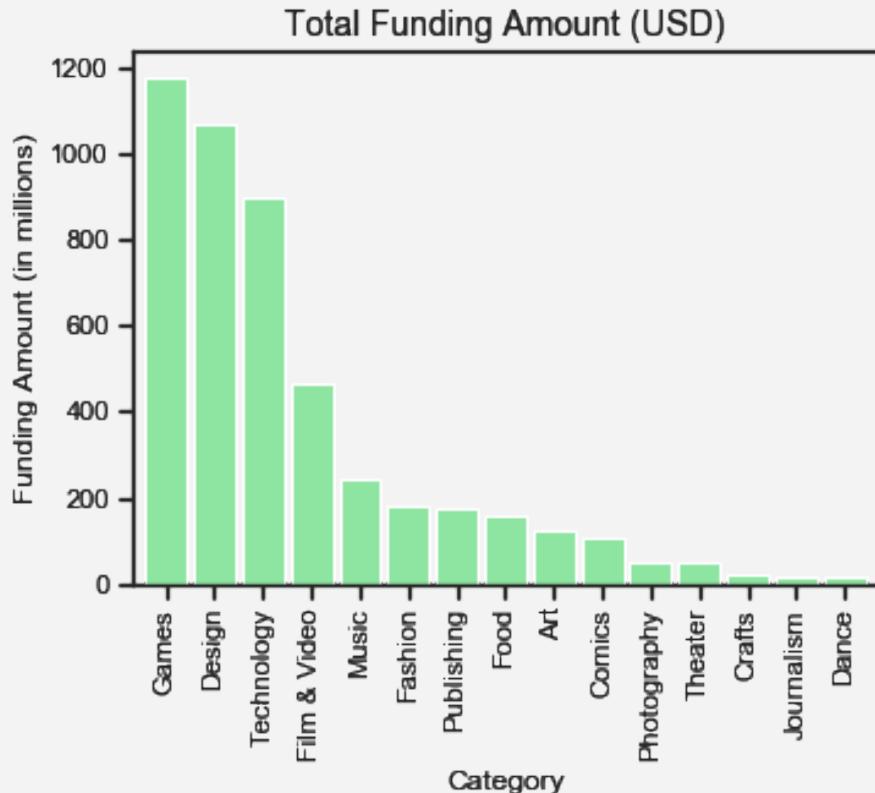
Alex Brooks

What is Kickstarter?

- Crowdfunding
- Creative projects
- Individual creators and small brands
- Different tiers of support



The Problem



The Approach

Model 1

+150K unique projects

All project categories

Focus of Kickstarter metrics

Model 2

+5K unique projects

Only tech projects

Incorporate social media

The Data

Predict → Total funding amount

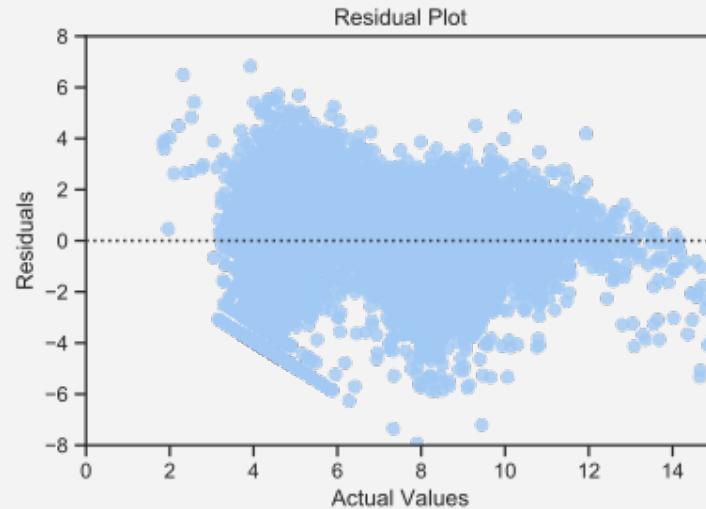
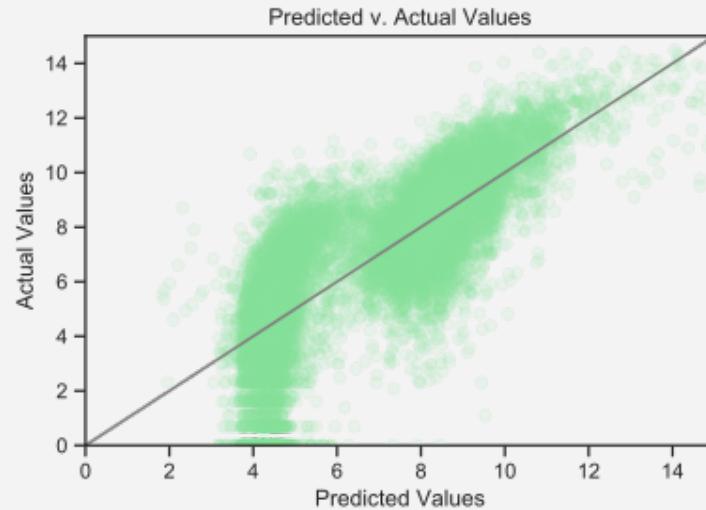
Using:

- Funding goal
- Number of backers
- Featured as spotlight or staff pick?
- Season project launched
- Category
- Days between page creation and project launch
- Campaign length



Results & Insights

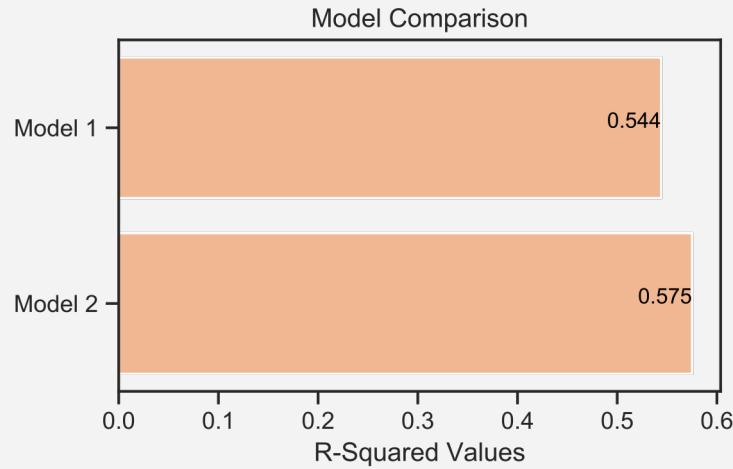
- Project goal had no impact
- Seasonality had no impact
- **Tech v. non-tech project**
- Staff pick or spotlight dramatically increase funding potential



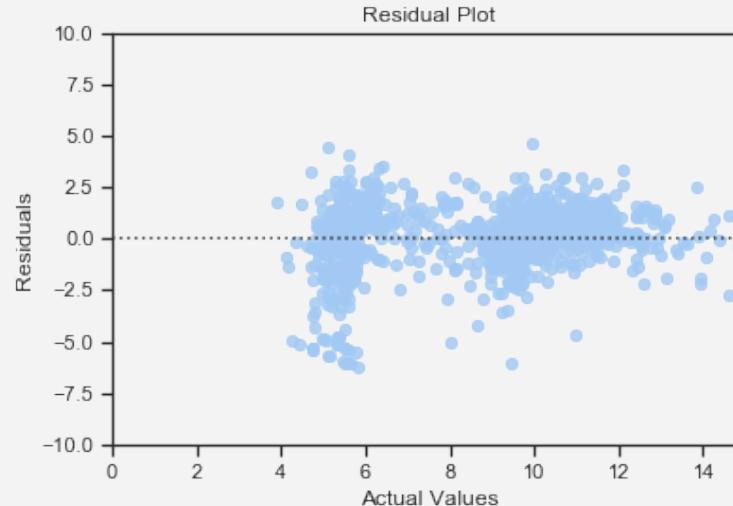
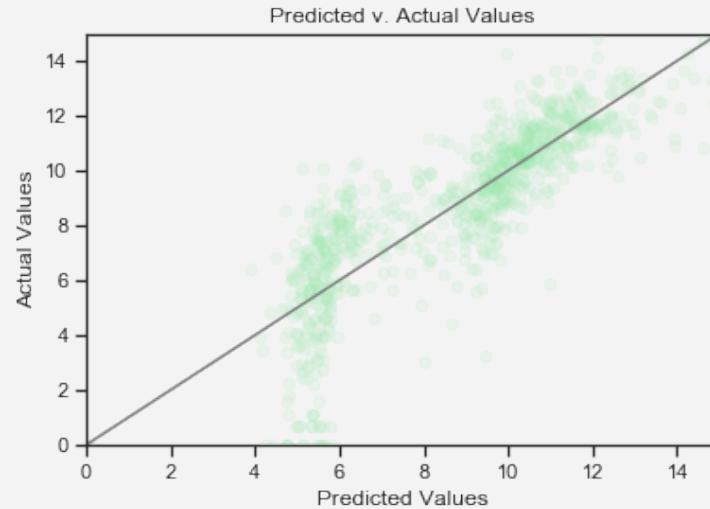
Let's Get Social



Results & Insights



- Model accuracy increased 10%
- Including a Facebook link had a high impact, other socials did not



Takeaways

- Little platform influence on project funding success
- Typical e-commerce/purchasing behaviors not present
- Including a Facebook link or not provided greater model accuracy

Future Work

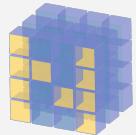
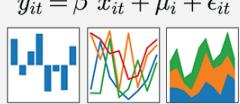
- **Time series analysis (ARIMA)**
 - Monthly backers and funding amounts
 - Monthly social data across platforms
 - Follower growth
 - “Social reach” → content views & engagements
- **Segmentation by support tier → pricing + backers**
- **Larger sample to model social impact**

Technologies



matplotlib

pandas



NumPy

BeautifulSoup



Seaborn

statsmodels



Resources

KICKSTARTER



Web Robots

Kicktraq



stackoverflow

Questions?



Appendix

Model 1

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 137800 entries, 0 to 194315
Data columns (total 25 columns):
backers_count      137800 non-null int64
country            137800 non-null object
created_at          137800 non-null datetime64[ns]
deadline            137800 non-null datetime64[ns]
goal                137800 non-null float64
launched_at         137800 non-null datetime64[ns]
name                137800 non-null object
spotlight           137800 non-null bool
staff_pick          137800 non-null bool
state               137800 non-null object
state_changed_at    137800 non-null datetime64[ns]
usd_pledged         137800 non-null float64
category            137800 non-null object
subcategory          137800 non-null object
project_url         137800 non-null object
project_life        137800 non-null int64
campaign_length     137800 non-null int64
launch_month        137800 non-null period[M]
deadline_month      137800 non-null period[M]
daily_amount_pledged 137800 non-null float64
daily_backers       137800 non-null float64
goal_diff            137800 non-null float64
goal_diff_perc       137800 non-null float64
creation_to_launch   137800 non-null int64
season_launched     137800 non-null object
dtypes: bool(2), datetime64[ns](4), float64(6), int64(4), object(7), period[M](2)
memory usage: 25.5+ MB
```

Model 2

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 4568 entries, 0 to 4567
Data columns (total 29 columns):
backers_count      4568 non-null int64
created_at          4568 non-null datetime64[ns]
deadline            4568 non-null datetime64[ns]
goal                4568 non-null float64
launched_at         4568 non-null datetime64[ns]
name                4568 non-null object
spotlight           4568 non-null bool
staff_pick          4568 non-null bool
state               4568 non-null object
usd_pledged         4568 non-null float64
category            4568 non-null object
subcategory          4568 non-null object
project_url         4568 non-null object
project_life        4568 non-null int64
campaign_length     4568 non-null int64
launch_month        4568 non-null period[M]
deadline_month      4568 non-null period[M]
daily_amount_pledged 4568 non-null float64
daily_backers       4568 non-null float64
social_links         4568 non-null object
socials              4568 non-null object
facebook             4568 non-null int64
instagram            4568 non-null int64
twitch                4568 non-null int64
twitter               4568 non-null int64
youtube               4568 non-null int64
total_social          4568 non-null int64
creation_to_launch   4568 non-null int64
season_launched       4568 non-null object
dtypes: bool(2), datetime64[ns](3), float64(4), int64(10), object(8), period[M](2)
memory usage: 1.1+ MB
```