Project Presentation 8.October 2020 Jonas Jaenicke Olaf Steenbeck

Kickstarter **SUCCESS** prediction



INITIAL SITUATION

What we wanted to find out

FINDINGS

What we have found out

RECOMMENDATIONS

Want be successful? DO THIS!

SUCCESS PREDICTION

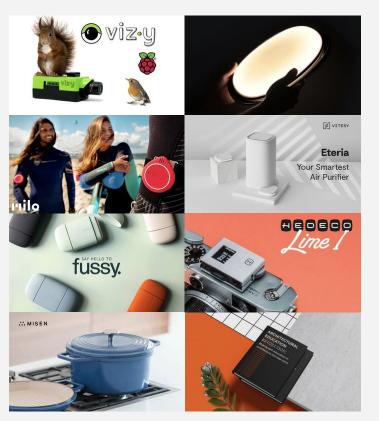
Models and their performance

FUTURE WORK

ROC, blurb and photo analysis

INITIAL SITUATION

I INITIAL SITUATION



About Kickstarter

- Global crowdfunding platform
- Mission: "Help bring creative projects to life"
- launched in 2009
- Projects only receive funding if the goal is reached
- \$4.6 billion in pledges (Dec 2019)
- about 17.2 million backers funded 445,000 projects

INITIAL SITUATION



Our Data Source

- Data comes from a scraping service:
 - https://webrobots.io/kickstarter-datasets/
- Snapshot of "all" project (scraped 18.11.2019)
- about 185.000 projects after removing duplicates

I INITIAL SITUATION - TASK

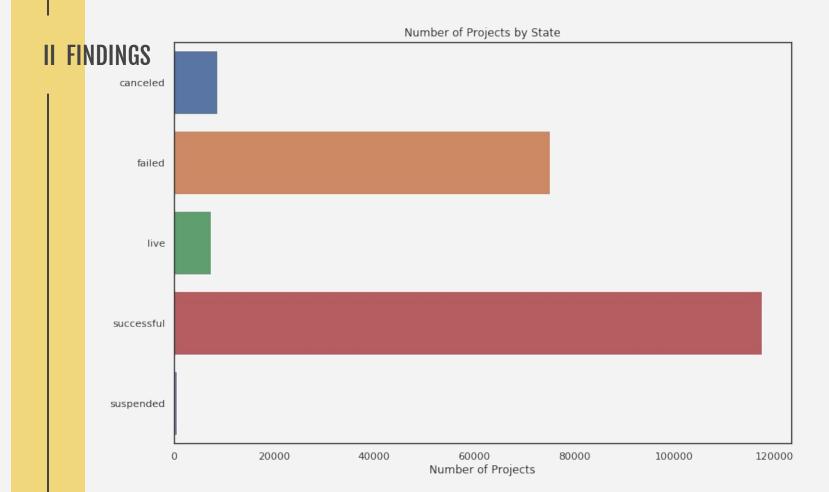


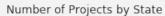
Creation of a model to predict the success of a campaign (based on known project data)

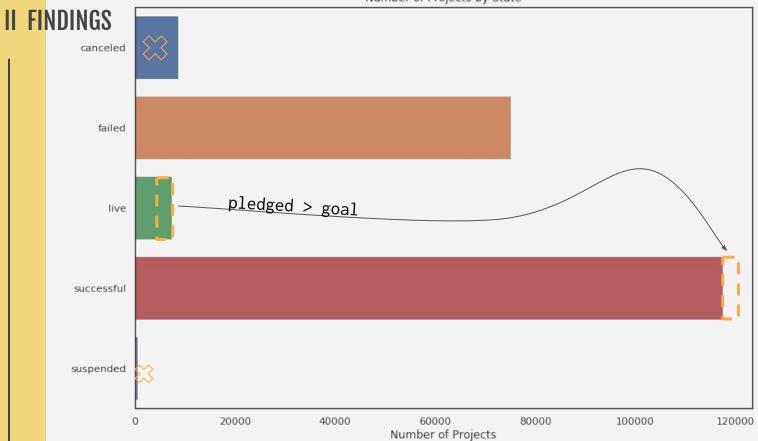


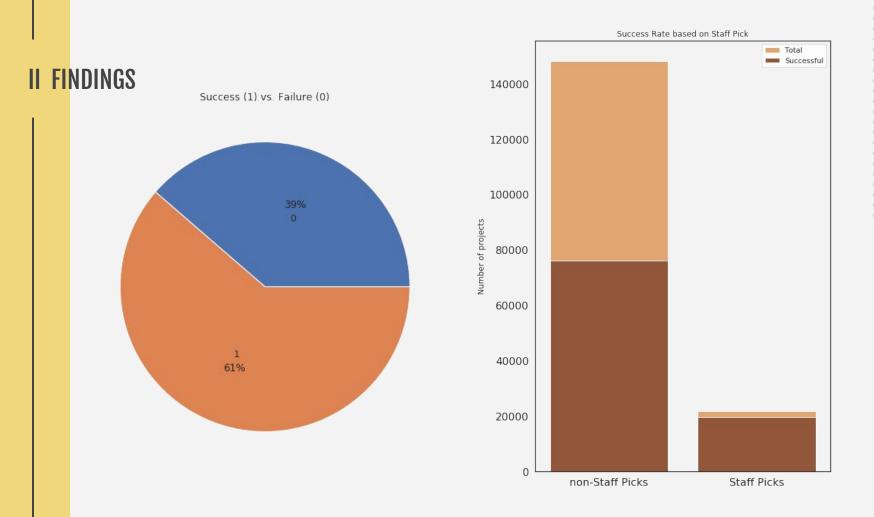
Recommendations of how to optimize a project for success

FINDINGS

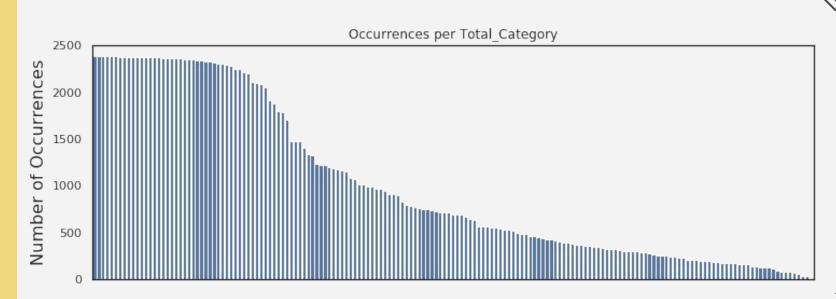


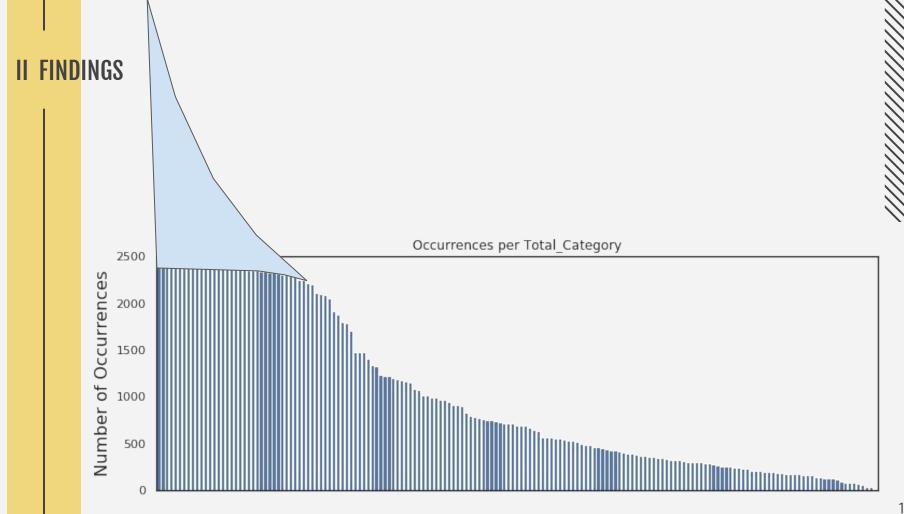




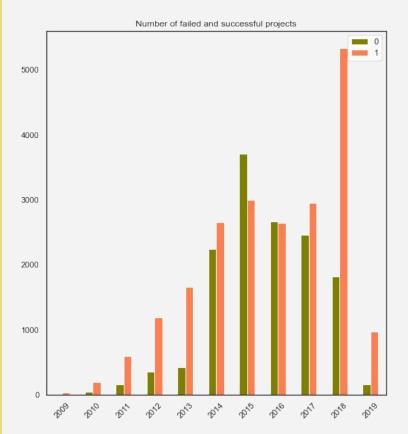


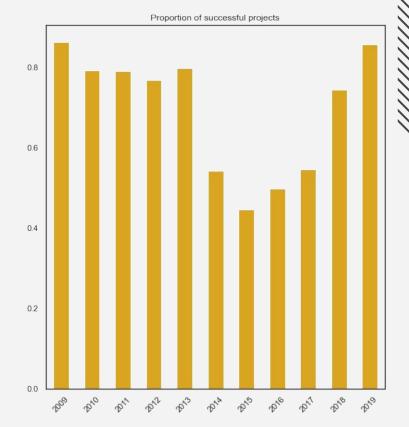
II FINDINGS





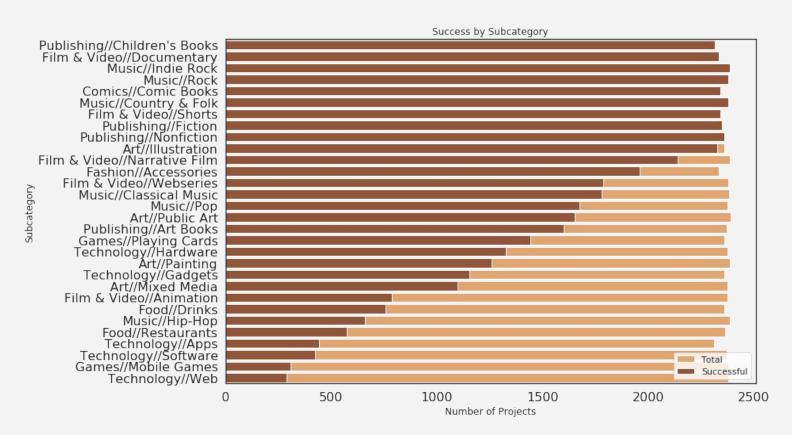
II FINDINGS



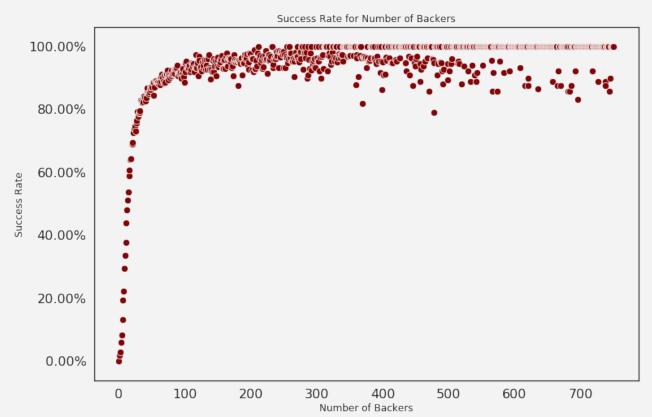


RECOMMENDATION

III RECOMMENDATIONS



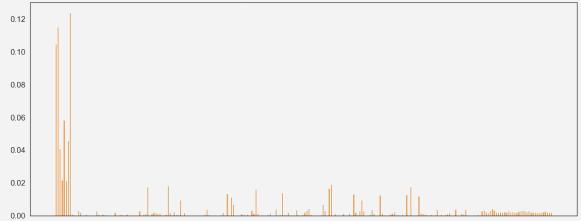
III RECOMMENDATIONS

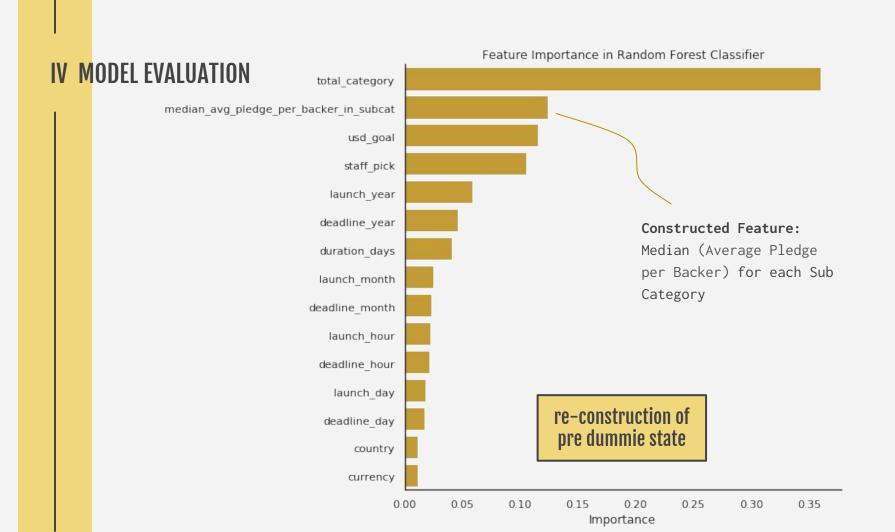


SUCCESS PREDICTIONS

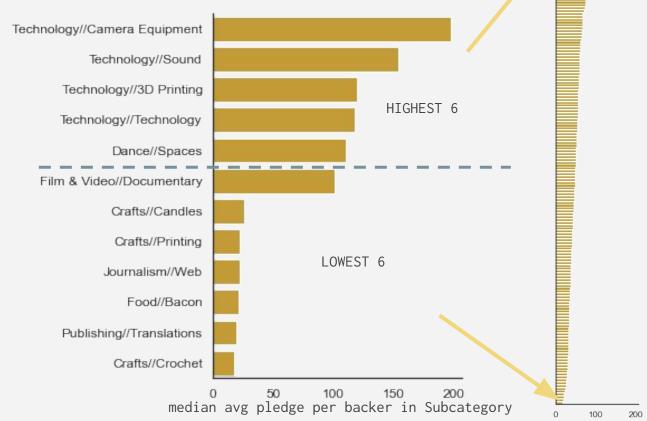
IV MODEL EVALUATION







IV MODEL EVALUATION



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IV MODEL EVALUATION

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."https://www.kickstarter.com/discover/categories/art/illustration"."tr

Best performing model: Random Forest

f1 Score: 0.812

accuracy: 0.823 precision: 0.867 recall_score: 0.764

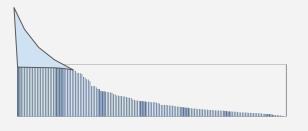
roc auc score: 0.823

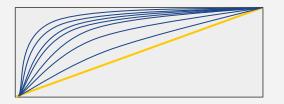


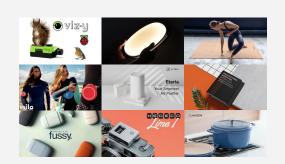
other models considered: XGBoost, SVM, Logistic Regression

FUTURE WORK

V FUTURE WORK







Low Hanging

Full-data-view, we are looking at roughly 45% of the potential data.

Investigating ROC curves to visually compare different models and improve upon them.

High Hanging

Pictures for many campaigns are available. Do their colors and displayed objects correlate with success?



WOULD YOUR PREDICT SUCCESS OR FAILURE?



ASKED FOR \$7,000. GOT \$ 46,000. IN 2016.





vor 6 Tagen

Pandemic? More like PANdemic, amirite?

FINISH OUR PANS, MAN.

Or, you know, give me my money back.

END