Project Presentation 8.October 2020 Jonas Jaenicke Olaf Steenbeck

Kickstarter **SUCCESS** prediction

What we wanted to find out

FINDINGS

What have we found out

RECOMMENDATIONS

Want be successful? DO THIS!

SUCCESS PREDICTION

Models and their performance

FUTURE WORK

ROC, blurb and photo analysis



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



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

01 INITIAL SITUATION – TASK

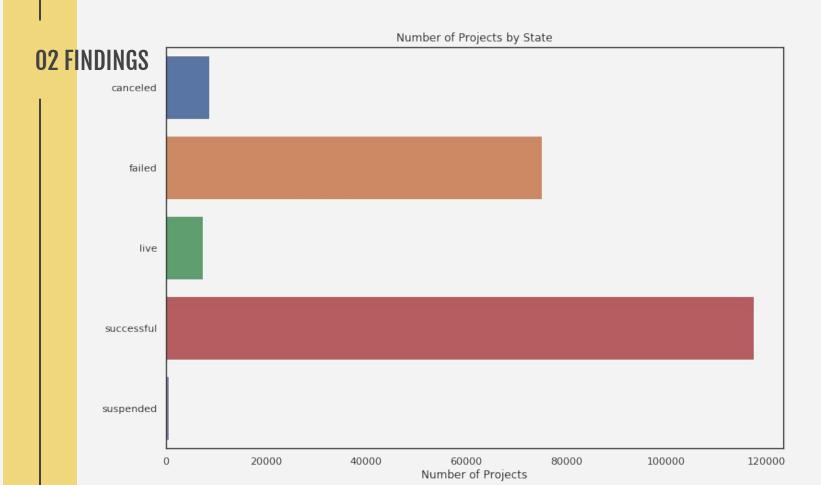


Creation of a model to predict the success of a campaign (based on known project data)

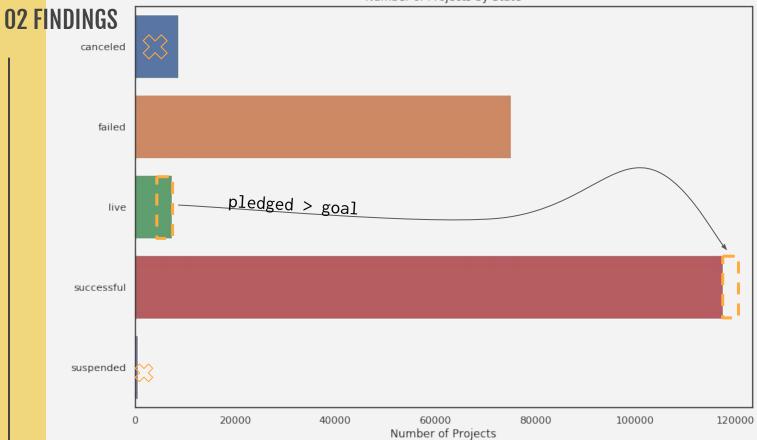


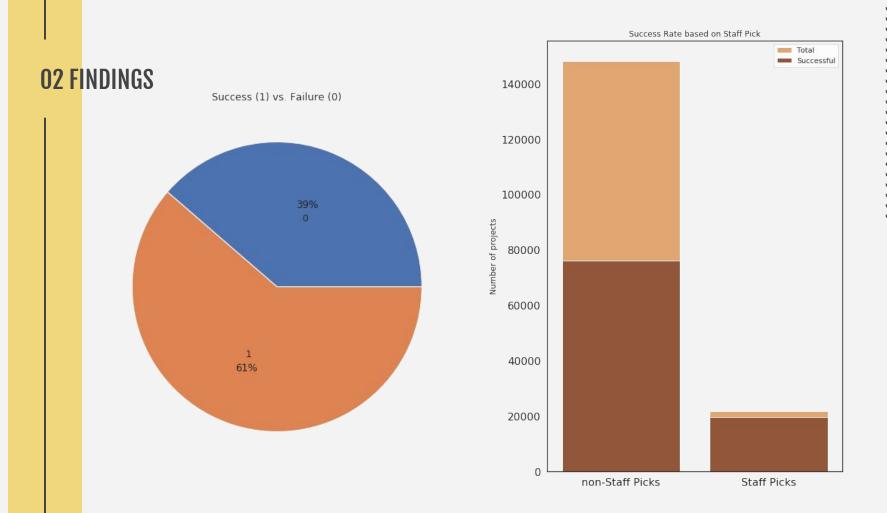
Recommendations of how to optimize a project for success

FINDINGS

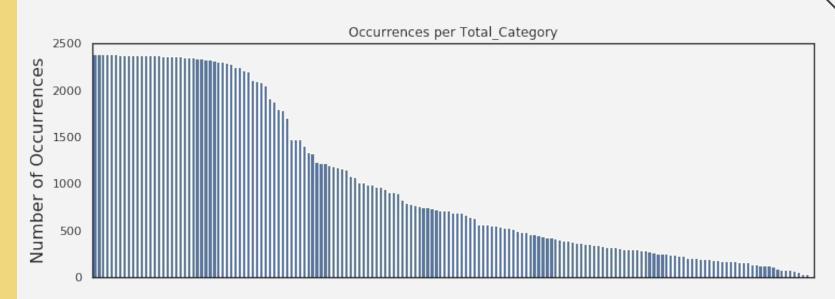


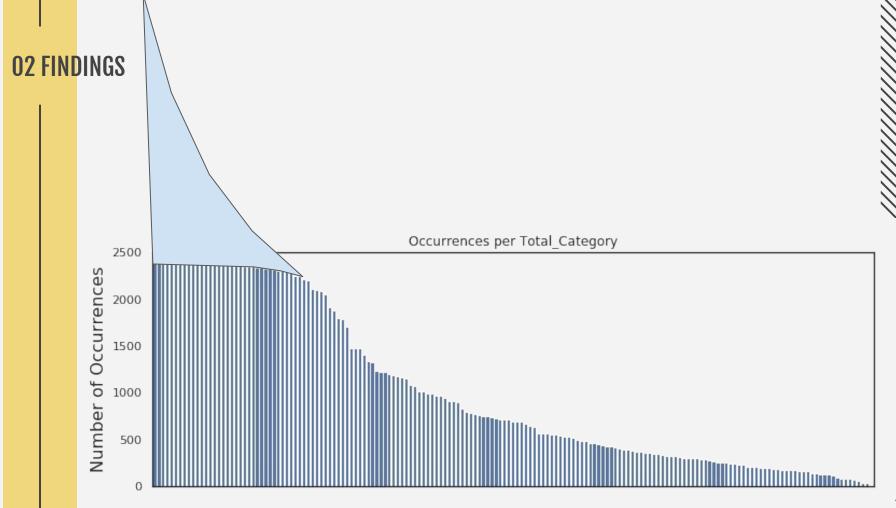
Number of Projects by State



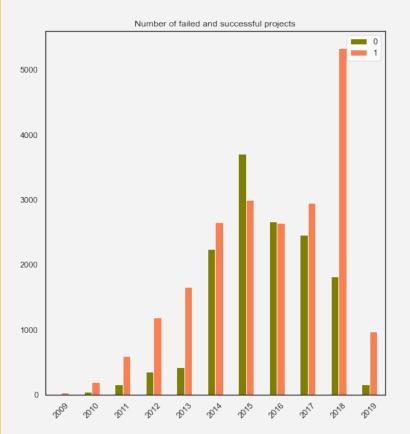


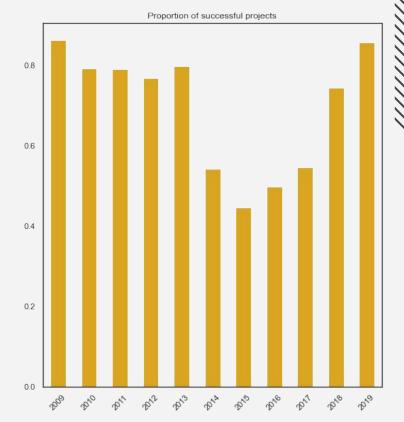
02 FINDINGS





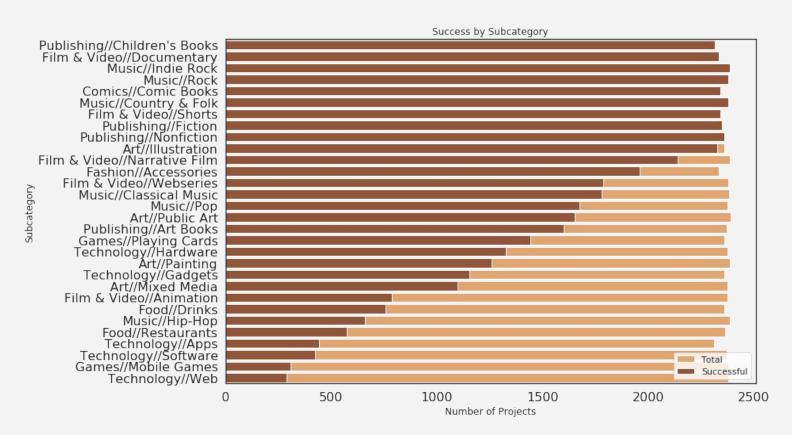
02 FINDINGS



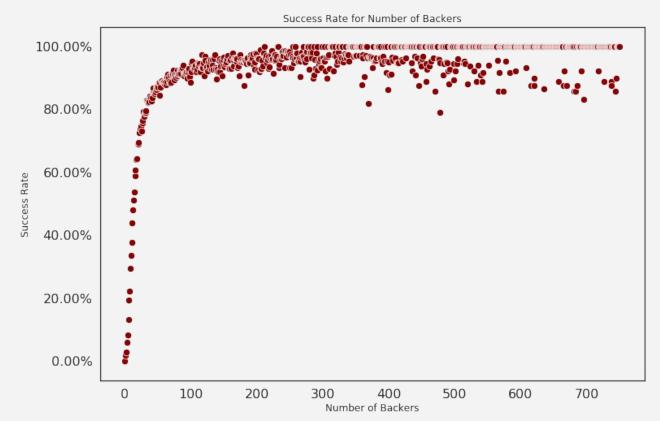


RECOMMENDATION

03 RECOMMENDATIONS



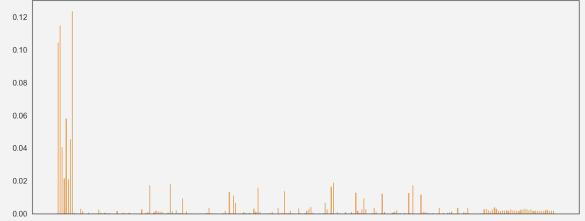
03 RECOMMENDATIONS

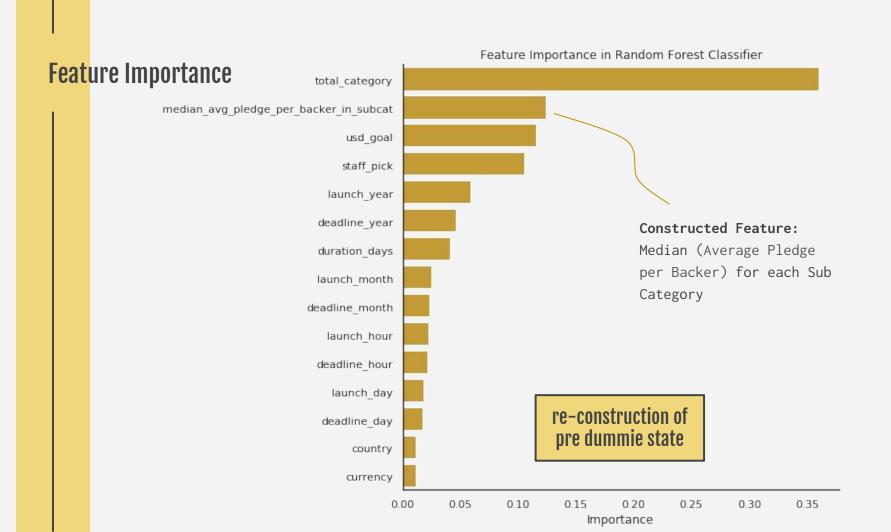


SUCCESS PREDICTIONS

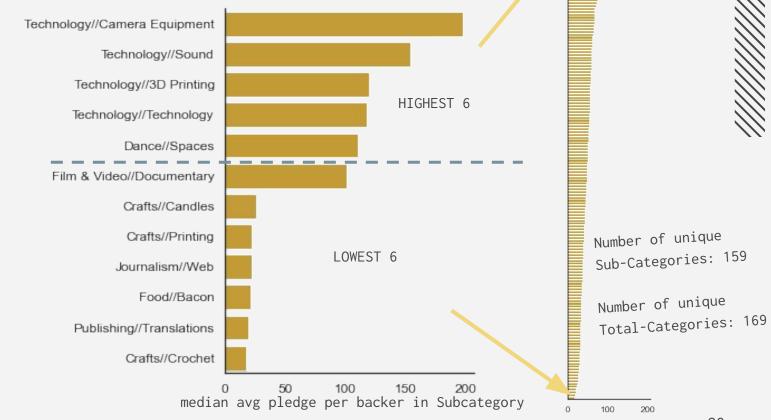
Feature importance, 244 features







04 MODEL EVALUATION



"118","A tarot deck set in a post-apocalyptic world, with a gothic western style, and diverse bodies, genders, races, ages, and sexualities .","[""id"":22,""name"": ""illustration" ",""slug"":"art/illustration"",""position"":4,""parent_id"":1,""color"":16

04 MODEL EVALUATION

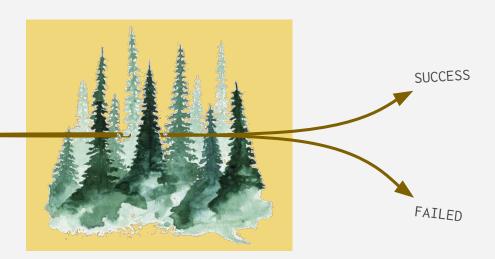
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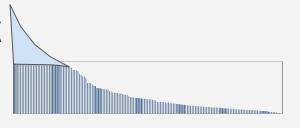
Best performing model: Random Forest

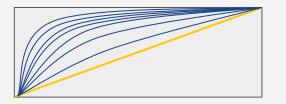
f1_score: 0.812 accuracy: 0.823 precision: 0.867 recall_score: 0.764 roc_auc_score: 0.823

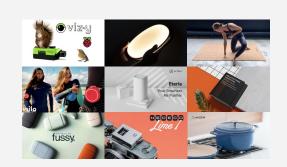


FUTURE WORK

05 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.





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Pandemic? More like PANdemic, amirite?

FINISH OUR PANS, MAN.

Or, you know, give me my money back.

END