sme. ノくくくくくくくくくく **ノノノノノノノノノノノノノノノノノ** Scoring SME companies in **ノノノノノノノノ** seconds smescoring.eu, November, 2019



The Brief

We provide an alternative scoring of SMEs in order to lower the default rate and increase the approval rate at the same time

Fully automated

Lower the cost and error of manual work

Instant rating

Get immediate info

Continuous company checking

Do not rely on one-time verification

Gini coefficient improvement

Get more clients without risk increase or lower the risk of current portfolio



New Data Structure

Check covered by a standard bank approval process



Finance Health

- financial statements
- bank transactions



Liabilities

- central evidence of executions
- lists of debtors
- donation receivers



Business Registry

- official public business registry
- other business registry

Scorecard proposed by smescoring.eu



Company Online Presence

- business registry
- company website
- company fb profile



Company Online Ratings

- google reviews
- company platform reviews
- sentiment analysis of company fb profile



Online Environment Around The Company

- ownership structure
- company and representatives reputation matrix
 - o peer analytics
- article text analysis



Alternative scoring: 3 phases

- 1. Company online presence and ratings
- 2. Company and representatives reputation matrix
- 3. Article text analytics



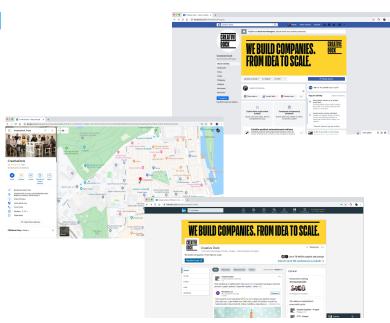
Phase 1: Company online identification

In order to scrape and analyze company online footprint we first need to identify its online presence.

We search for data sources having direct impact on company payment morale

- Online registry records
- Company website (if there is any)
- Company facebook site
- Company google maps profile

The output is a set of links enriched by a level of confidence.





Matching Algorithm: Obchodní rejstřík

IČO 28988442

Název subjektu: CreativeDock s.r.o.

Spisová značka: C 158121 vedená u Městského soudu v Praze

Sídlo: Zubatého 295/5, Smíchov, 150 00 Praha 5

IČO: 289 88 442

Den zápisu: 25. listopadu 2009

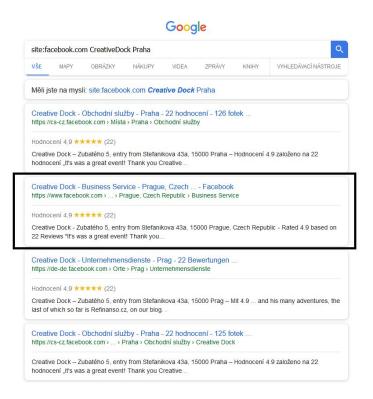


Matching Algorithm

Make sure that there is a NEEDLE in the HAYSTACK



Matching Algorithm: Example 1





Matching Algorithm: Example 2

Search: Mutumutu Facebook

https://www.facebook.com/CreativeDockPrague/posts/1216920855136170?_fb_noscript=1

https://www.facebook.com/CreativeDockPrague/posts/1231864486975140/?_fb_noscript=1

https://www.facebook.com/MutumutuCz/

https://www.facebook.com/czechcrunch/posts/1606941696078991/

https://tyinternety.cz/startupy/mutumutu-kryje-zakazniky-na-vic-nez-miliardu-ted-se-mu-maji-otevrit-dvere-do-evropy/

https://www.mutumutu.cz/



Matching Algorithm: Example 2

Search: Mutumutu Facebook

https://www.facebook.com/CreativeDockPrague/posts/1216920855136170?_fb_noscript=1

https://www.facebook.com/CreativeDockPrague/posts/1231864486975140/?_fb_noscript=1

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https://www.mutumutu.cz/



Matching Algorithm: Results

Registry: IČO 28988442

Spisová značka:

Název subjektu: CreativeDock s.r.o.

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289 88 442

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Representation of the company on the Internet:

Facebook: https://www.facebook.com/CreativeDockPrague

Website: https://www.creativedock.com

Firmy.cz profile: https://www.firmy.cz/detail/12897394-creativedock-praha-smichov.html

Google maps profile: $\frac{https://www.google.com/maps/place/CreativeDock/@50.0761449,14.4010896,17z/data=!3m1!4b1!4m5!3m4!180x470b94f94bcb9383:0x2ce315e423a8cba0!8m2!3d50.0761415!4d14.4032783$

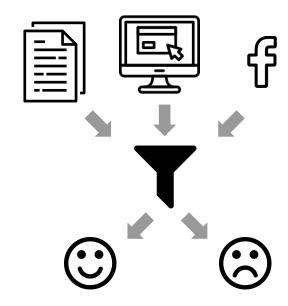


Phase 1: Company online data scraping and evaluation

Based on company online identification we scrape data from found sources and prepare online score to enrich an existing scorecard.

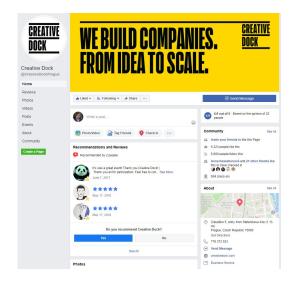
We scrape the data from company website, fb profile and other sources to get unstructured information about company current and past online presence.

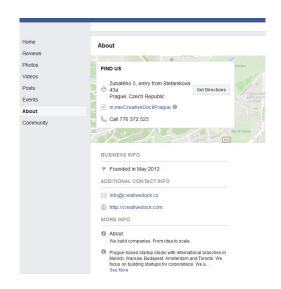
This is then used to create hundreds of variables as an input for a scoring model.





Algorithm: Scraping data







Home page About page Post



Algorithm: Statistical features

The post can be transformed into a set of statistical features:

- published on June 7, 2019
- has 35 reactions
- 3 reactions of type LOVE
- 32 reactions of type LIKE
- Contains 52 words
- Contains 1 image
- Contains 3 links



Kostky jsou vrženy, ceny rozdány a my spolu s týmem Mutumutu můžeme slavit. Naše online životní pojištění se v soutěži Nápad roku ze 174 přihlášených projektů umístilo na 7. místě, máme proto velkou radost. Gratulujeme vítězům i zúčastněným a přejeme jim mnoho dalších úspěchů!

Kdo dosáhl na stupínky vítězů, se podívejte tady: bit.ly/NapadRoku2019



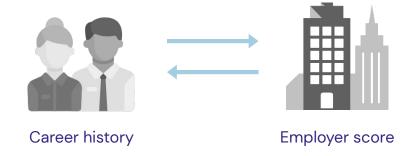




Phase 2: Company and representatives reputation matrix

We analyze company representatives history and build their reputation based on prior company leading results.

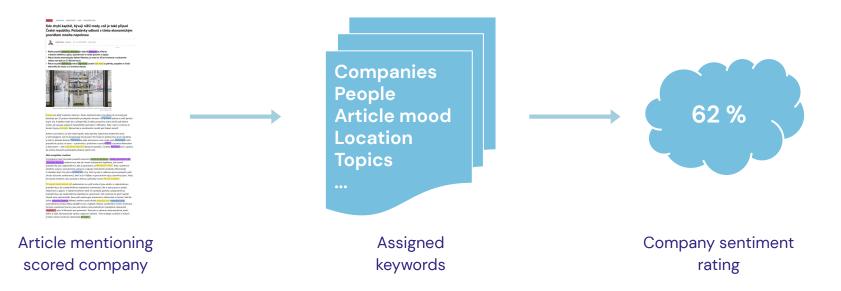
By company representatives we mean – management, owners, advisory board.





Phase 3: Article text analysis

We find articles mentioning targeted company. Text analysis give us the sentiment of the article for the company evaluation.





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