

The World's Largest Automotive Study on Instagram

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Data Science Meetup Münster

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Overview

In Germany, the automobile industry alone spends almost 2B Euros per year on advertisement.

Objective	Showcase how car brands win on Instagram.
Background	<ul style="list-style-type: none">• Via 234 hashtags we identified 890 car accounts with at least 100K followers.• Of these, 112 were found to be official brand accounts, further divided into 38 different brands.• Time window: 26 April – 24 May 2017.
Scope	131.599.539 Followers, 4.273 Postings, 276.654 Comments.

Data Acquisition

AUTO - BRAND

NEWEDITDELETE























































AVG. FOLLOWER (GROWTH 4W)
13m (+4.46%)

AVG. SCORE
46.2

AVG. LIKE-FOLLOWER-RATIO ?
150

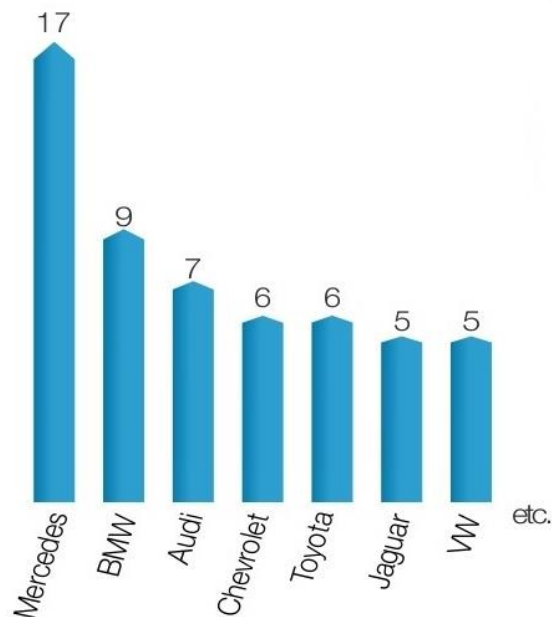
LIST MEMBERS 94 / 1000

DOWNLOAD AS EXCEL

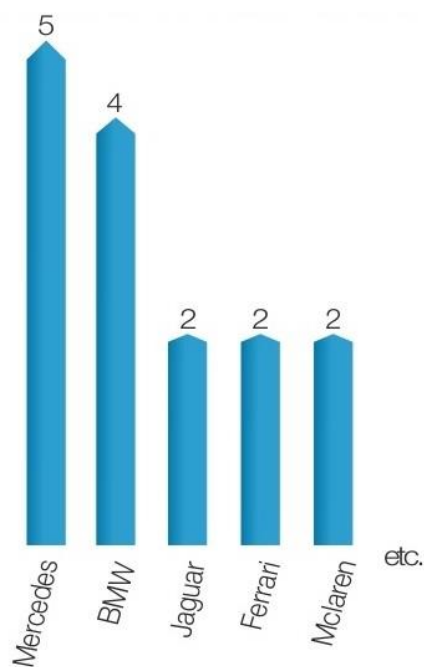
SORT BY:	NAME	FOLLOWER	GROWTH	LIKE-FOLLOWER-RATIO	SCORE	
	bmw	 12.3m (3.4%)		 17%	 84	 
	mercedesbenz	 9.7m (4.2%)		 15%	 77	 
	audi	 8.3m (3.8%)		 2.1%	 81	 
	lamborghini	 7.9m (5.6%)		 2.3%	 89	 
	porsche	 7.5m (4.4%)		 19%	 66	 
	mercedesamg	 5.4m (3.8%)		 1.3%	 65	 
	maserati	 5.0m (4.7%)		 2.3%	 76	 
	jaguar	 4.7m (4.5%)		 1.4%	 64	 
	bugatti	 4.3m (5.3%)		 2.2%	 79	 

Followers

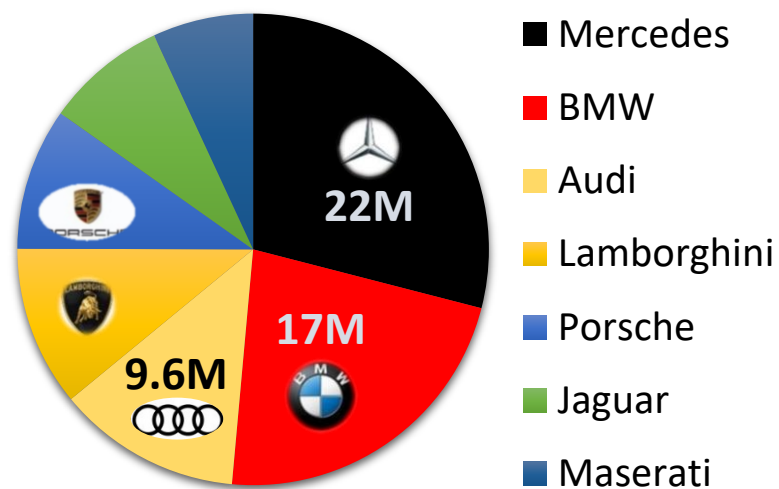
Number of accounts with more than 100K followers



Number of accounts with more than 1M followers



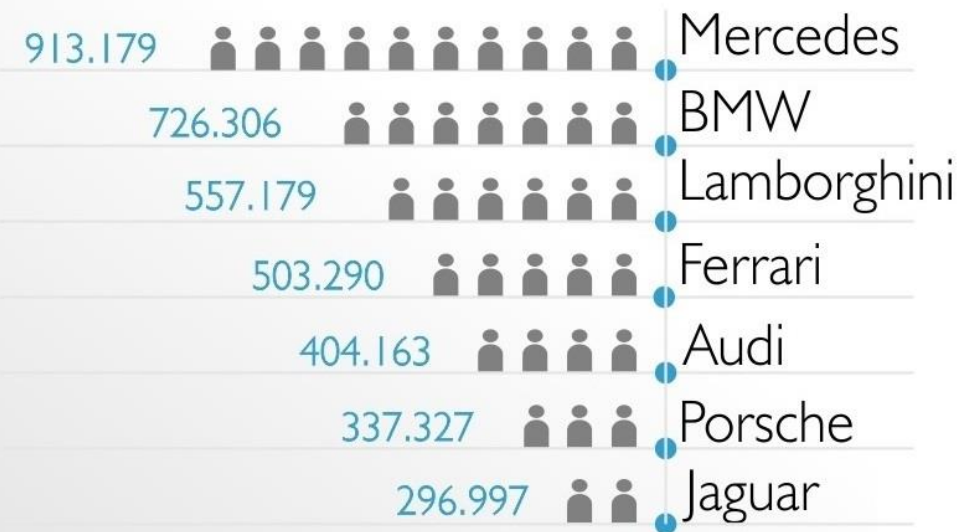
Total Count Followers



Follower Growth



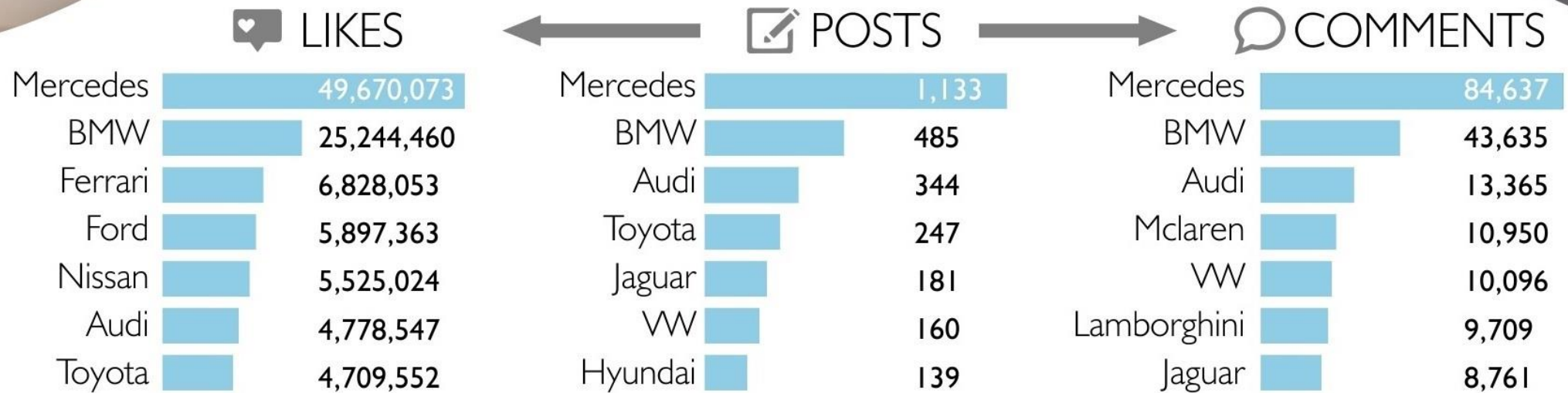
PERCENTAGE-WISE 



 BY ABSOLUTE NUMBERS

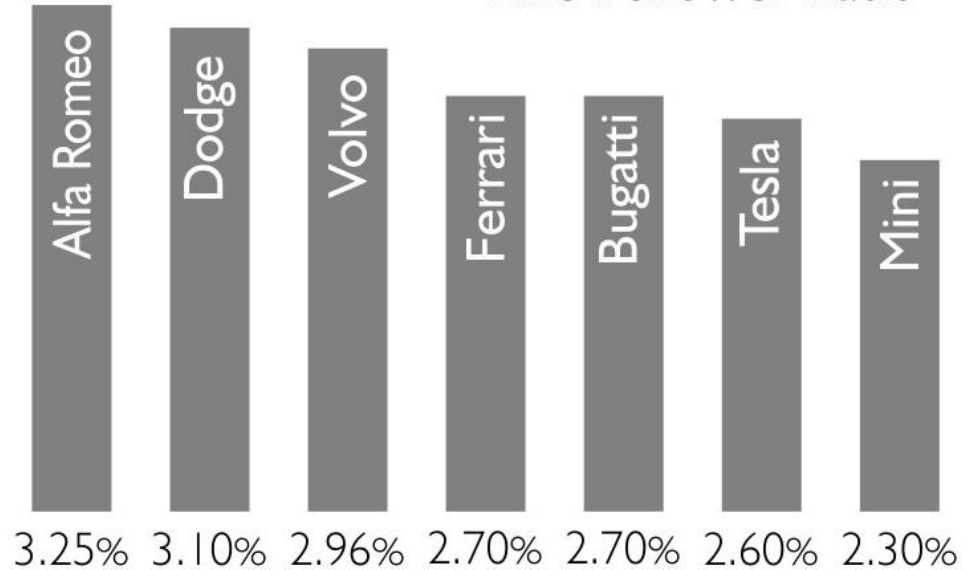
More Numbers

FROM POSTS TO COMMENTS AND LIKES

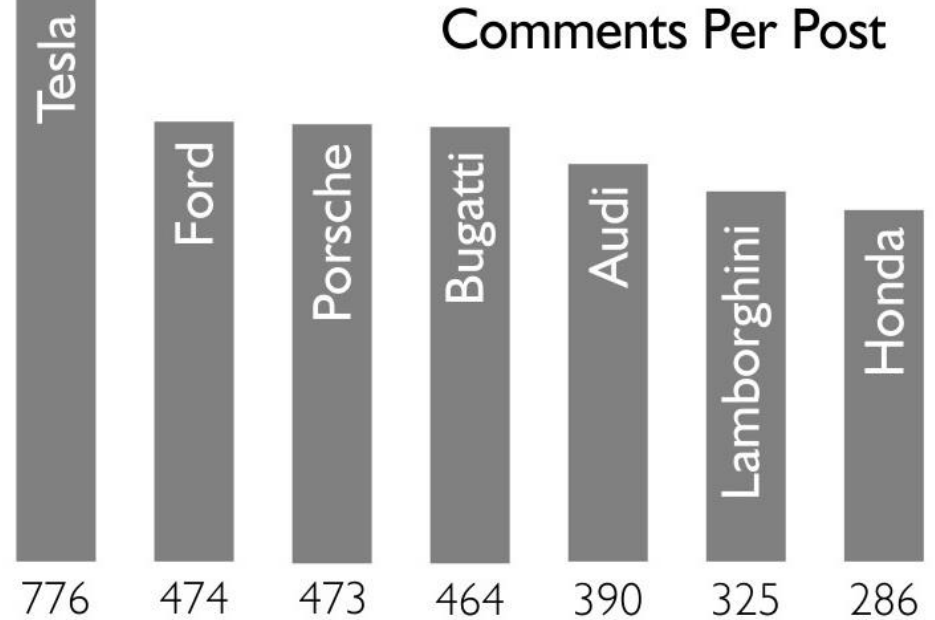


Better Metrics For The Win

Like Follower Ratio

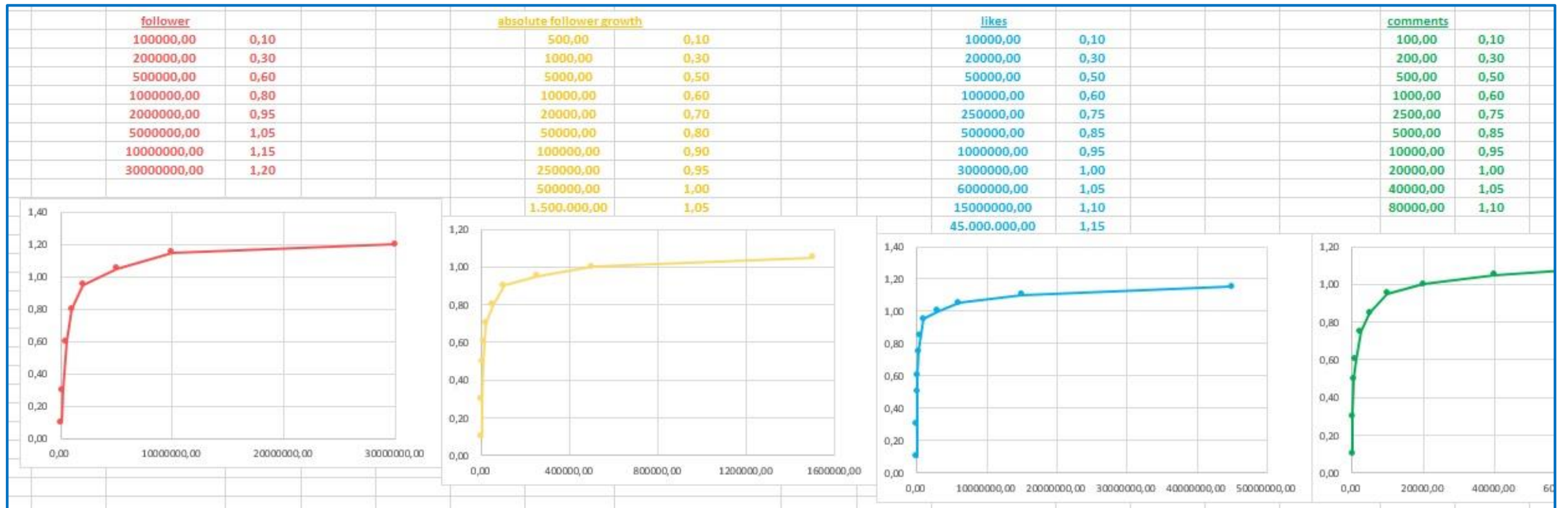


Comments Per Post



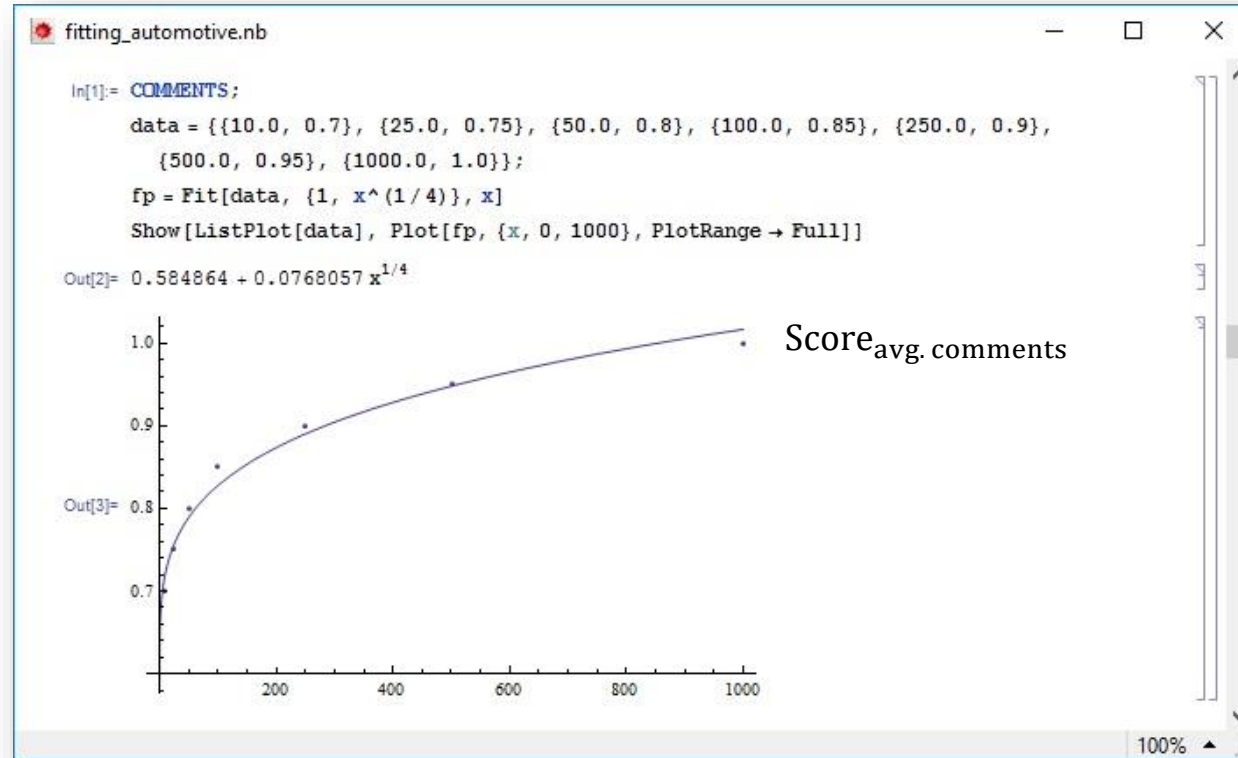
Effectivity and Efficiency

Total Follower Count, Absolute Follower Growth, Likes, Comments -> ``Effectivity``



Follower Growth [%], Like to Follower Ratio, Avg. Comments per Post -> ``Efficiency``

Developing a Metascore

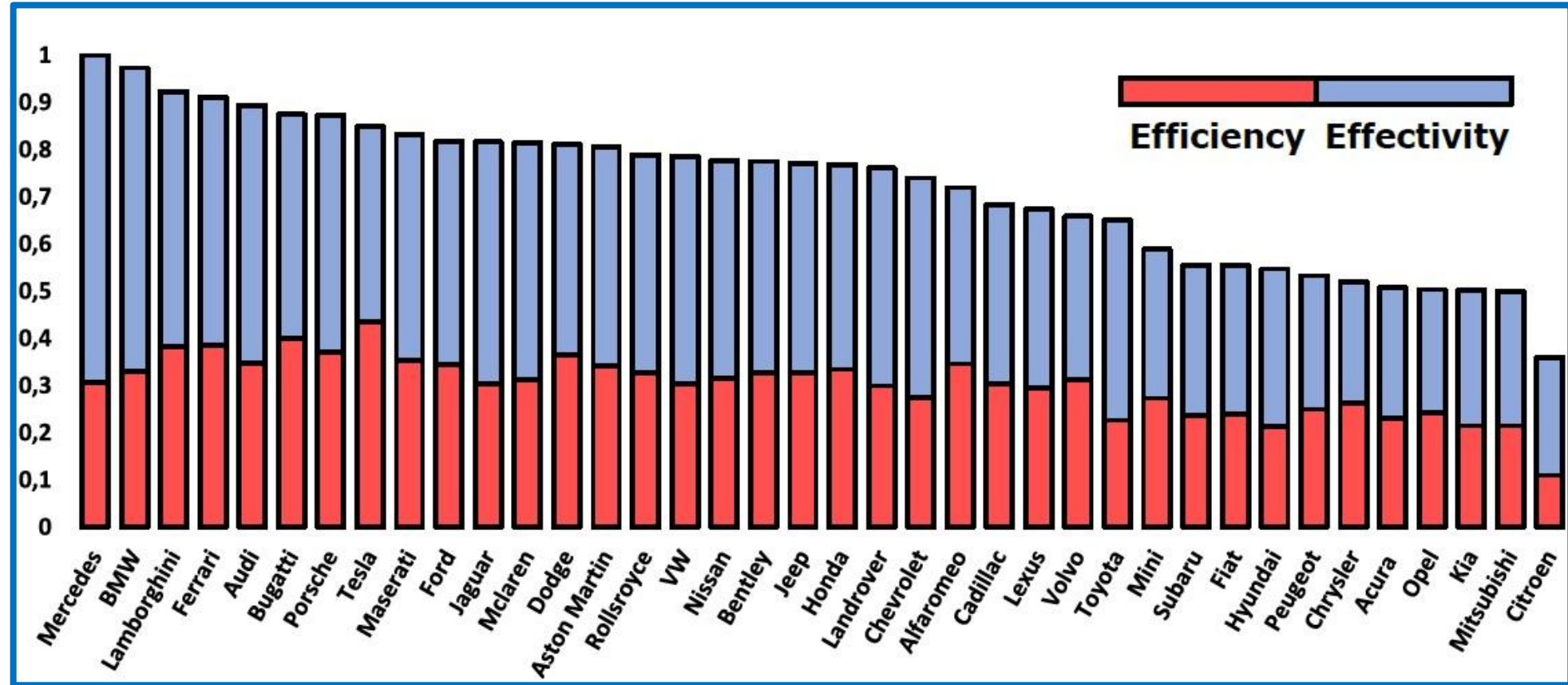


$$\text{Effectivity} = \frac{1}{4}(\text{Score}_{\text{follower}} + \text{Score}_{\text{abs. growth}} + \text{Score}_{\text{likes}} + \text{Score}_{\text{comments}})$$

$$\text{Efficiency} = \frac{1}{3}(\text{Score}_{\text{avg. comments}} + \text{Score}_{\text{rel. growth}} + \text{Score}_{\text{LFR}})$$

$$\text{Metascore} = \text{Effectivity} + \text{Efficiency}$$

Metascore



Hot Brands

1. Tesla
2. Bugatti
3. Ferrari

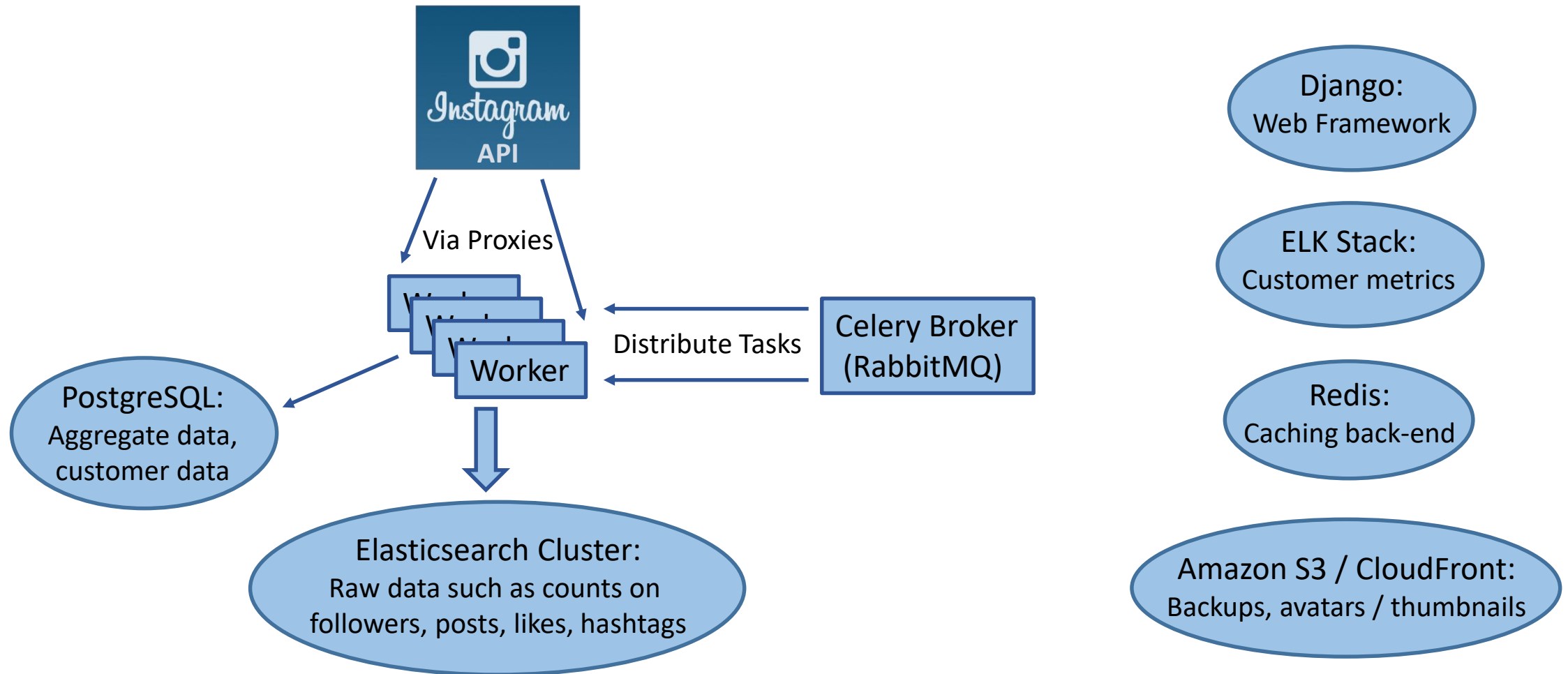
Dominant Brands

1. Mercedes
2. BMW
3. Audi

Central Results

- German automotive manufacturers dominate the field. They combine more than 75% of the ~132M followers.
- Mercedes has the highest follower count of ~22M.
- Ferrari and Alfa Romeo have the highest percentages regarding follower growth (11% and 8%, respectively).
- Mercedes has the best Metascore, followed by BMW and Lamborghini.
- Tesla shows the highest efficiency, followed by Bugatti and Ferrari.

Hints on our Back-End



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