



Iron Hack - Data Analytics



70_DAPT_sao_jan_2022 - Renato de Jesus Rocha

Fevereiro 2022

Business Question:

What activities were responsible for the increase in shark bites in the 21st century? What are the reasons?

Quais foram as atividades responsáveis pelo aumento das mordidas de tubarão no século 21? Quais os motivos?



Database - Shark Attacks:

Year	Activity	ac_mean
2018	surfing	15
	swimming	9
2017	surfing	38
	swimming	24
	snorkeling	9
	spearfishing	8
	fishing	7
	scuba diving	7
	body boarding	6
2016	surfing	40
	swimming	16
	spearfishing	11
	fishing	10
	wading	6

Year	Activity	ac_mean
2015	surfing	42
	swimming	17
	kayak fishing	8
	spearfishing	8
	wading	8
	fishing	7
	snorkeling	5
2014	surfing	35
	swimming	16
	fishing	11
	spearfishing	7
2013	surfing	33
	swimming	18
	fishing	6
	snorkeling	6
	spearfishing	5

Database - Shark Attacks:

Year	Activity	ac_mean
2012	surfing	42
	swimming	18
	spearfishing	6
	fishing	5
2011	surfing	37
	swimming	15
	spearfishing	9
	fishing	7
	diving	5
	scuba diving	5
2010	surfing	34
	snorkeling	12
	swimming	12
	fishing	8

Year	Activity	ac_mean
2009	surfing	39
	swimming	21
	fishing	13
	spearfishing	10
	wading	6
2008	surfing	38
	swimming	13
	fishing	11
	wading	10
	spearfishing	6
2007	surfing	38
	swimming	17
	spearfishing	6
	wading	6

Database - Shark Attacks:

Year	Activity	ac_mean
2006	surfing	29
	swimming	12
	spearfishing	9
	bodyboarding	6
	fishing	6
2005	surfing	35
	swimming	11
	fishing	7
	spearfishing	7
	wading	6
2004	surfing	25
	swimming	13
	spearfishing	6
	diving	5
	snorkeling	5

Year	Activity	ac_mean
2003	surfing	35
	swimming	14
	spearfishing	6
2002	surfing	25
	swimming	15
	snorkeling	5
2001	surfing	32
	swimming	11
	boogie boarding	5
2000	surfing	21
	swimming	17

Database - Shark Attacks:

633 - Shark Attacks
Surfing

2018 year:
Min - 15

2015 year:
Max - 42

Reasons:

- Sharks mistake humans on surfboards for easy prey;
- Space invasion;
- Traces of blood in the water.

33,31 - Average Shark Attacks

2000, 2001, 2002, 2003 and 2004: **27 attacks on average.**

2014, 2015, 2016, 2017 and 2018: **34 attacks on average.**

26% more than the four years at the beginning of the century.

Surfing Facts:

In 2016 surfing was embraced as an Olympic sport. The confirmation came on August 3, 2016 after an official announcement during the 129th congress of the IOC (International Olympic Committee). And the first official competition took place in 2021 at the Tokyo Olympics.



Brazil moves more than R\$ 7 billion a year, according to estimates by the Brazilian Surfing Institute (Ibrasurfe).