

Churn Predict Analyst 2022

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Data Source



	user_id	gender	age	source	quantity	created_at	price	browser	event_type
0	2021	M	64	Adwords	1	2022-01-01 00:41:00.000000 UTC	39.00	Chrome	home
1	2021	M	64	Email	1	2022-01-01 00:41:00.000000 UTC	39.00	Safari	purchase
2	2021	M	64	Email	1	2022-01-01 00:41:00.000000 UTC	39.00	Safari	department
3	2021	M	64	Email	1	2022-01-01 00:41:00.000000 UTC	39.00	Firefox	purchase
4	2021	M	64	Email	1	2022-01-01 00:41:00.000000 UTC	39.00	Safari	cart

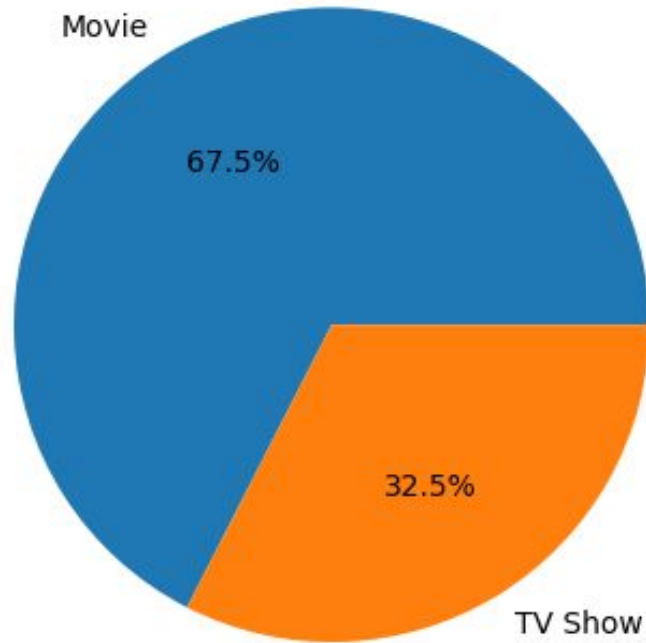
Event Type Distribution



Browser Distribution



Movie Distribution



Dari data netflix tahun 2019 Movie lebih mendominasi sebesar **67.5%** dibandingkan TV show yang hanya memiliki 32.5%

Data Defined Churn

Period	Total
December	3512
November	3289
October	3235
September	2840
August	2883
July	2746
June	2485
May	2267
April	2224
March	2191
February	1966
January	2144

Sampling 2

id	recency	frequency	Money
1	287	1	65.000
2	107	2	19.000

Churn IF **180 Days**
not return

Churn	Total (%)
Yes	56 %
No	44 %

Churn Prediction Model

Churn	Total (%)
Yes	56 %
No	44 %



Train 80%, Testing 20%



Metode
XGB Boost
Decission Tree
SVM

Kesimpulan

- Dari model yang ada akan dipakai beberapa parameter sebagai fitur machine learning churn prediction ,yaitu:
 - 1.gender
 - 2.Age
 - 3.Source
 - 4.Quantity
 - 5.Browser
 - 6.Event type
 7. Price
- Berikut performa metode machine learning yang akan dipakai dengan test periode 2021-2023 sebagai berikut :

Metode	Accuracy		
	2021	2022	2023
XGB Boost / mean	73 %	70 %	75 %
Decission Tree / median	86 %	89 %	75 %