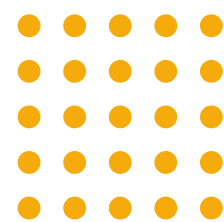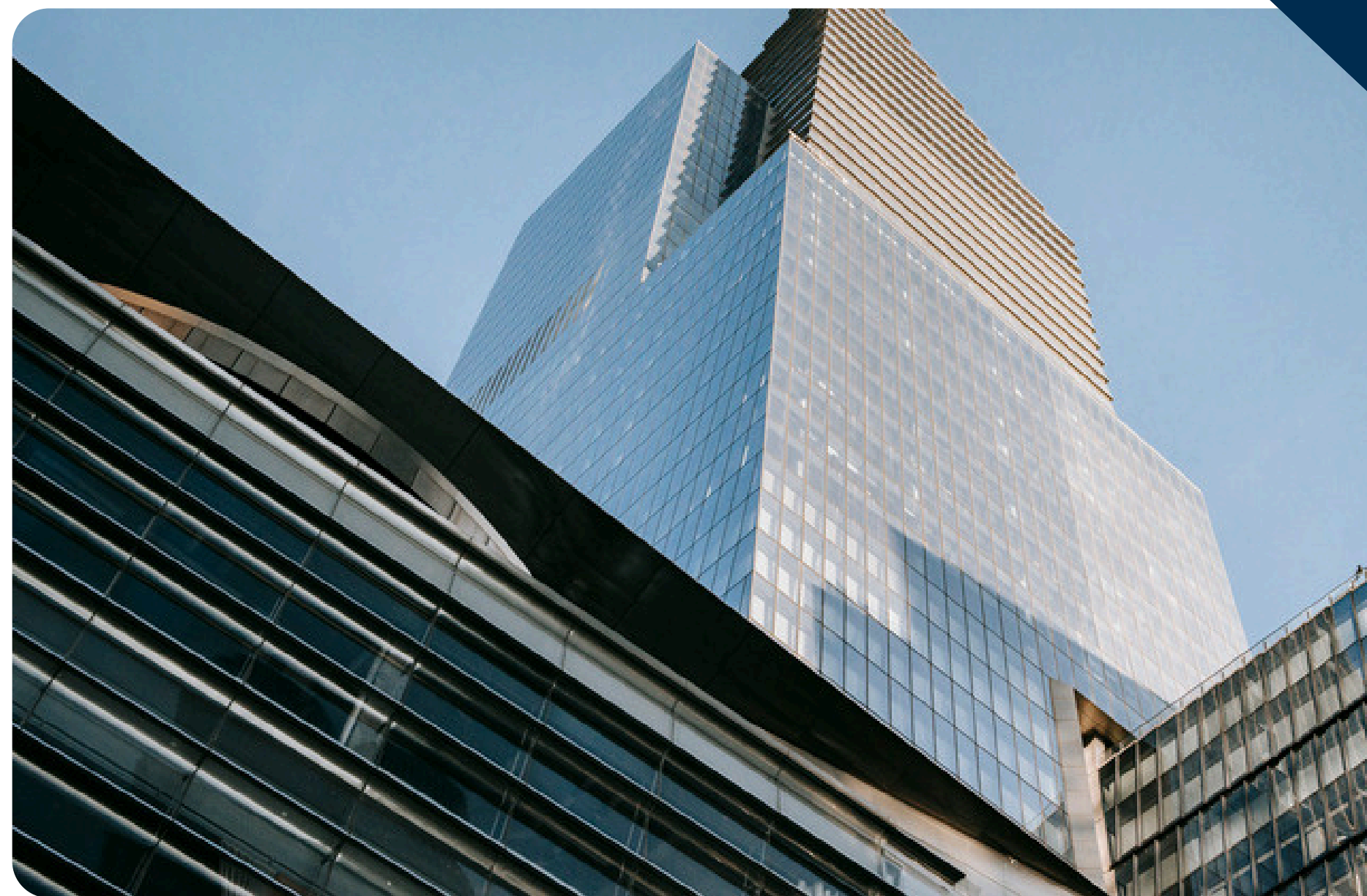ZAHRAN HANIF FATHANMUBIN

MY PORTOFOLIO

Everything is controlled by data

CONTENTS

01 Know about me

02 DIVHUBINTER Portofolio

03 My thesis project

MYSELF

Hi, My name is Zahran Hanif Fathanmubin an informatics student who loves to talk to each other. Besides my analytical skill, my strongest power is how can i influence people with my communication skill. I am not just a yapper, i talk with data

DIVHUBINTER HIT DASHBOARD

Back when i was still on my internship at DIVHUBINTER MABES POLRI, my senior gave me a task to make a dasboard using microsoft excel. It was a HIT Dashboard.

HIT is a terms to say that they catch a suspicious person which may have something in the police's database

WHAT'S INSIDE MY DASHBOARD?

Interactive Dashboard

I made an interactive dashboard. User can pick the information that they want to see and the dashboard will change according to the option that user pick.
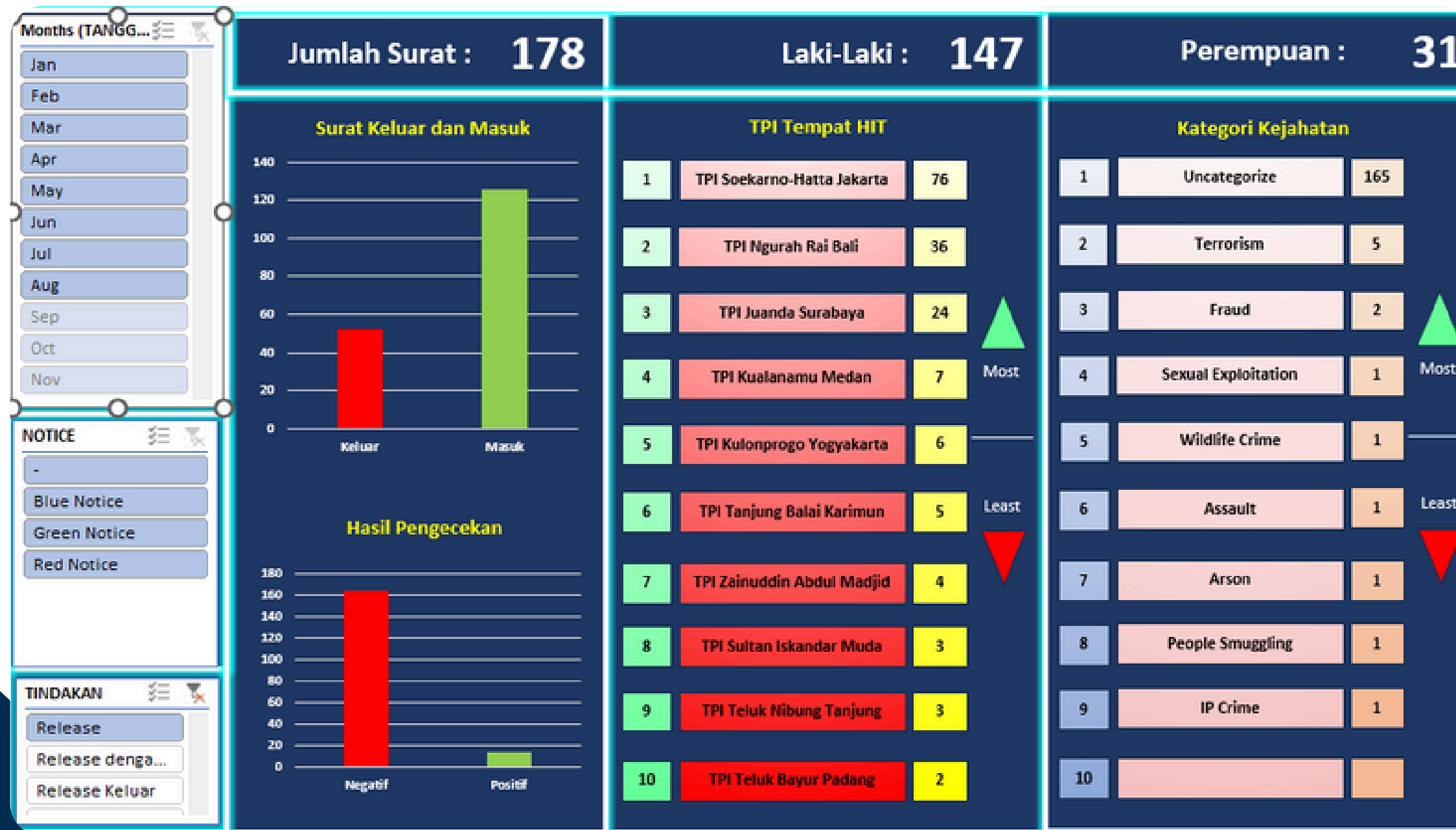
Filters

As an interactive dashboard, filter is a key feature that make this dashboard interactive. I I have three filters which are filter by month, by notice, and by action.
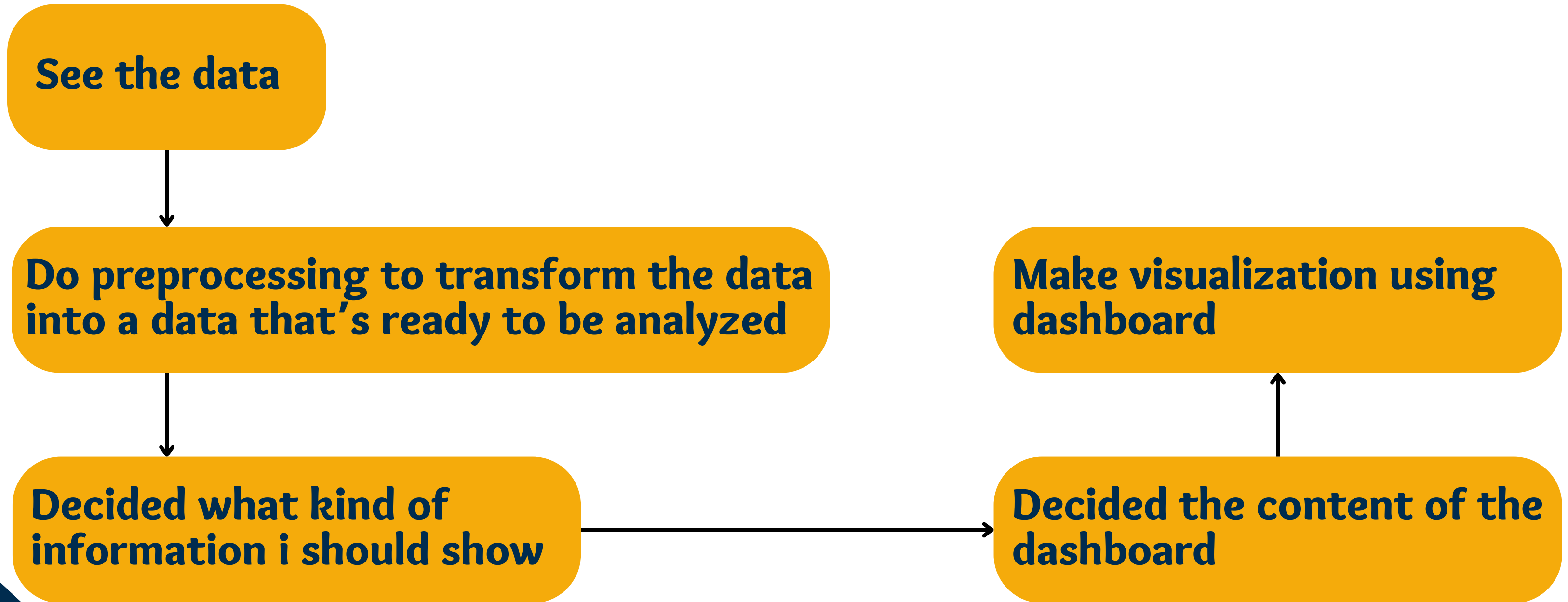
Diagrams and Numbers

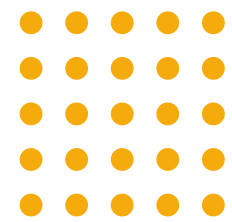To show the insight of the data, i use number and diagram.

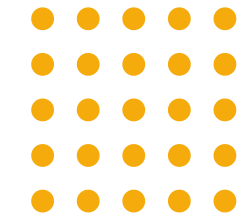# MY DASHBOARD

Basically it's a credential data so i cannot show you all of the data. Basically this dashboard shows the number of criminal HIT caught by Indonesian police. My task is to give insight from the total of 246 data from January to August.

PROCESS IN A NUTSHEL

See the data

Do preprocessing to transform the data into a data that's ready to be analyzed

Decided what kind of information i should show

Decided the content of the dashboard

**Make visualization using dashboard**

MY THESIS

I am doing a project called sentiment analaysis. Basically it is a project where you store data, preprocess it so that it is ready to be treated, and analys it into an insight to see the data's trend whether it is positive or negative.

My thesis object is analys suicidal post comments and make a program that can predict whether this sentence is a potential suicidal sentece or not from the sentence that user input. i took the data from 2 sources. The first one is i scrapped it myself from X (Twitter) and the second one from a website called kaggle

DATA CHARACTERISTIC
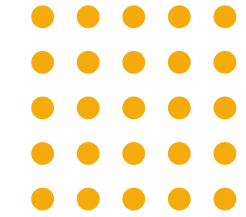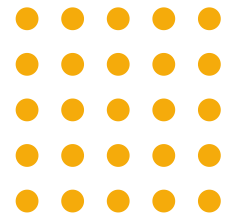
Kaggle

1. Already in a good shape
2. Already labelled
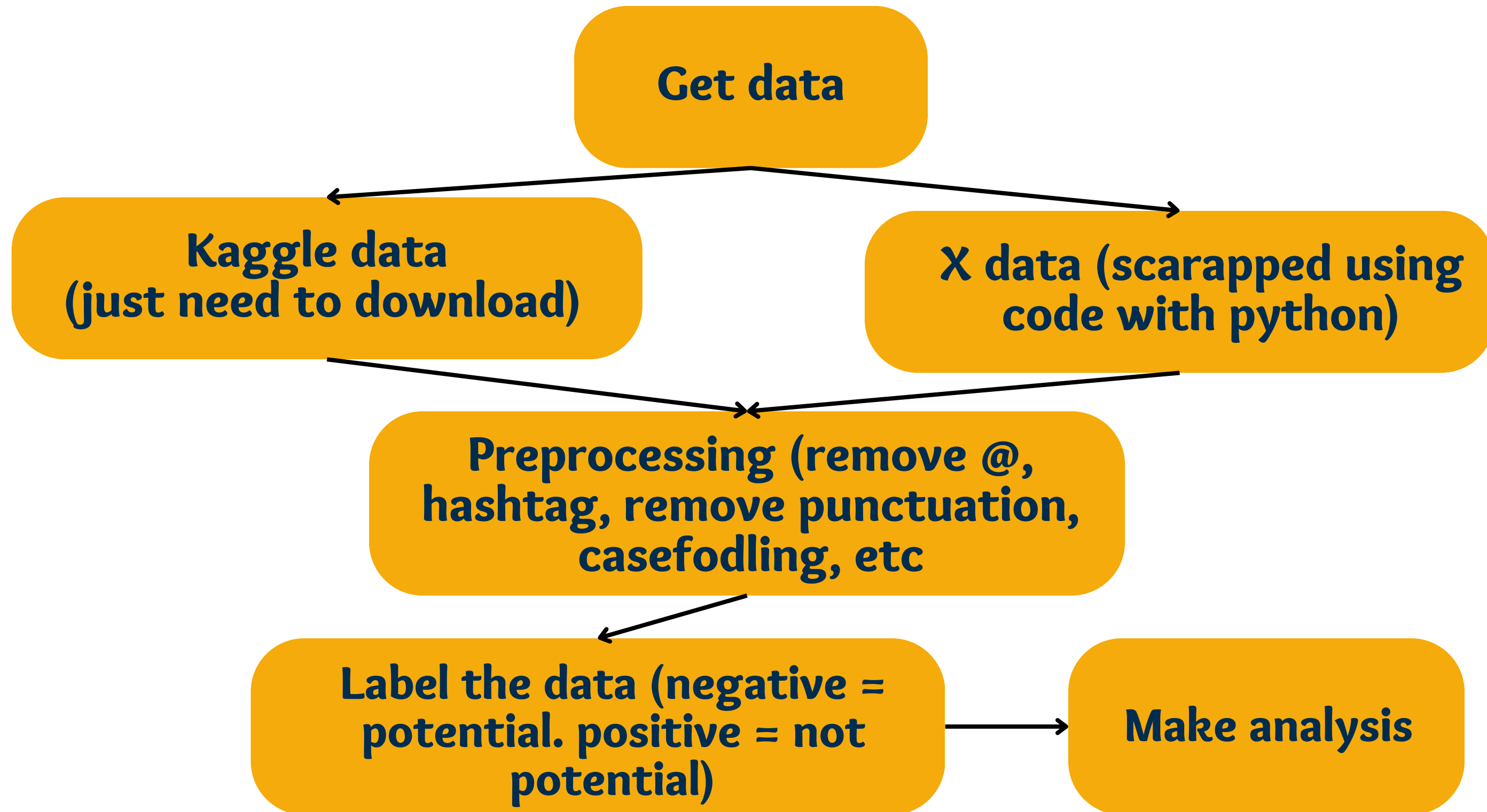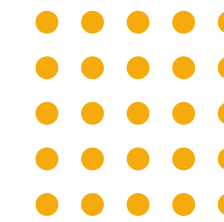3. Just need to be clean a little bit

Raw Data from X

1. Still need to delete some columns that i don't need
2. Unlabelled
3. Still need a lot of proces

PROCESS IN A NUTSHEL

```
                      ┌─────────────┐
                      │  Get data   │
                      └─────────────┘
                        ╱         ╲
            ┌──────────────────┐   ┌──────────────────────┐
            │  Kaggle data     │   │  X data (scarapped   │
            │  (just need to   │   │  using code with     │
            │   download)      │   │   python)            │
            └──────────────────┘   └──────────────────────┘
                        ╲         ╱
            ┌─────────────────────────────────┐
            │  Preprocessing (remove @,        │
            │  hashtag, remove punctuation,    │
            │  casefodling, etc                │
            └─────────────────────────────────┘
                          │
            ┌─────────────────────────────┐      ┌──────────────┐
            │ Label the data (negative =   │ ───> │ Make analysis│
            │ potential. positive = not    │      └──────────────┘
            │ potential)                   │
            └─────────────────────────────┘
```

TRANSFORM RAW DATA INTO INSIGHT (X DATA)

1 This is a data i took from X (Twitter). First i coded to scrap the data

TRANSFORM RAW DATA INTO INSIGHT (X DATA)

2 Next, I transformed that data into some columns that showed the preprocessing step. This step basically just to make sure that the data is ready to be process. I made the data into one format, removed some noises, and it is ready to process

	Review	text_clean	text_casefoldingText	text_slangwords
0	@stelunara aduh by kayaknya yang itu gak dulu ...	aduh by kayaknya yang itu gak dulu itu lagu te...	aduh by kayaknya yang itu gak dulu itu lagu te...	aduh by kayaknya yang itu tidak dulu itu lagu ...
1	@antn_ja Pada bunuh diri semua endingnya	_ja Pada bunuh diri semua endingnya	_ja pada bunuh diri semua endingnya	_ja pada bunuh diri semua endingnya
2	@deviilworkk Bunuh diri aje anying sapa peduli	Bunuh diri aje anying sapa peduli	bunuh diri aje anying sapa peduli	bunuh diri saja anying sapa peduli
3	gws van ajg gue kek bunuh diri	gws van ajg gue kek bunuh diri	gws van ajg gue kek bunuh diri	gws van ajg gue kayak bunuh diri
4	Ini percobaan bunuh diri gue ini ya Allah blac...	Ini percobaan bunuh diri gue ini ya Allah blac...	ini percobaan bunuh diri gue ini ya allah blac...	ini percobaan bunuh diri gue ini ya allah blac...
5	Kenapa junhee bunuh diri ya. Ga abis pikir.	Kenapa junhee bunuh diri ya. Ga abis pikir	kenapa junhee bunuh diri ya. ga abis pikir	kenapa junhee bunuh diri ya. tidak habis pikir
6	Yallah ini kemana lagi ga tahan yallah mau bun...	Yallah ini kemana lagi ga tahan yallah mau bun...	yallah ini kemana lagi ga tahan yallah mau bun...	yallah ini kemana lagi tidak tahan yallah mau ...
7	Aku shock banget ternyata dewi ayu cucunya ma ...	Aku shock banget ternyata dewi ayu cucunya ma ...	aku shock banget ternyata dewi ayu cucunya sam...	aku shock banget ternyata dewi ayu cucunya sam...
8	@heybubble13 Kayanya disini aku pinjamannya ya...	Kayanya disini aku pinjamannya yang paling ban...	kayanya disini aku pinjamannya yang paling ban...	kayanya disini aku pinjamannya yang paling ban...
9	menurut gw bom.bunuh diri ini setelah khs munc...	menurut gw bom bunuh diri ini setelah khs munc...	menurut gw bom bunuh diri ini setelah khs munc...	menurut gue bom bunuh diri ini setelah khs mun...

| text_tokenizingText	text_stopword	text_stemming	text_akhir
['aduh', 'by', 'kayaknya', 'yang', 'itu', 'tid...	['aduh', 'kayaknya', 'lagu', 'tersakit', 'bunuh']	aduh kayak lagu sakit bunuh	aduh kayaknya lagu tersakit bunuh
['_ja', 'pada', 'bunuh', 'diri', 'semua', 'end...	['_ja', 'bunuh', 'endingnya']	ja bunuh endingnya	_ja bunuh endingnya
['bunuh', 'diri', 'saja', 'anying', 'sapa', 'p...	['bunuh', 'anying', 'sapa', 'peduli']	bunuh anying sapa peduli	bunuh anying sapa peduli
['gws', 'van', 'ajg', 'gue', 'kayak', 'bunuh',...	['gws', 'van', 'ajg', 'gue', 'kayak', 'bunuh']	gws van ajg gue kayak bunuh	gws van ajg gue kayak bunuh
['ini', 'percobaan', 'bunuh', 'diri', 'gue', '...	['percobaan', 'bunuh', 'gue', 'allah', 'black'...	coba bunuh gue allah black hair dua mullet	percobaan bunuh gue allah black hair duanya mu...
['kenapa', 'junhee', 'bunuh', 'diri', 'ya.', '...	['junhee', 'bunuh', 'ya.', 'habis', 'pikir']	junhee bunuh ya habis pikir	junhee bunuh ya. habis pikir
['yallah', 'ini', 'kemana', 'lagi', 'tidak', '...	['yallah', 'kemana', 'tahan', 'yallah', 'bunuh...	yallah mana tahan yallah bunuh tahan banget ba...	yallah kemana tahan yallah bunuh tahan banget ...
['aku', 'shock', 'banget', 'ternyata', 'dewi',...	['shock', 'banget', 'dewi', 'ayu', 'cucunya', ...	shock banget dewi ayu cucu iyang dewi ayu nika...	shock banget dewi ayu cucunya iyang dewi ayu n...
['kayanya', 'disini', 'aku', 'pinjamannya', 'y...	['kayanya', 'pinjamannya', 'spnjam:', 'juta', ...	kaya pinjam spnjam juta spylater juta gopaypin...	kayanya pinjamannya spnjam: juta spylater: jut...
['menurut', 'gue', 'bom', 'bunuh', 'diri', 'in...	['gue', 'bom', 'bunuh', 'khs', 'muncul']	gue bom bunuh khs muncul	gue bom bunuh khs muncul

TRANSFORM RAW DATA INTO INSIGHT (X DATA)
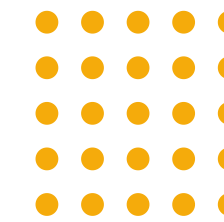
3 Final step is insight. The picture on you right side showed (98.6%) that from the data i took, 1223 out of 1238 tweets were negative. Negative means that it's a potencial suicidal category, while only 15 (1.4%) tweets were not potential
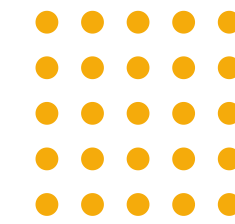

Distribusi Sentimen
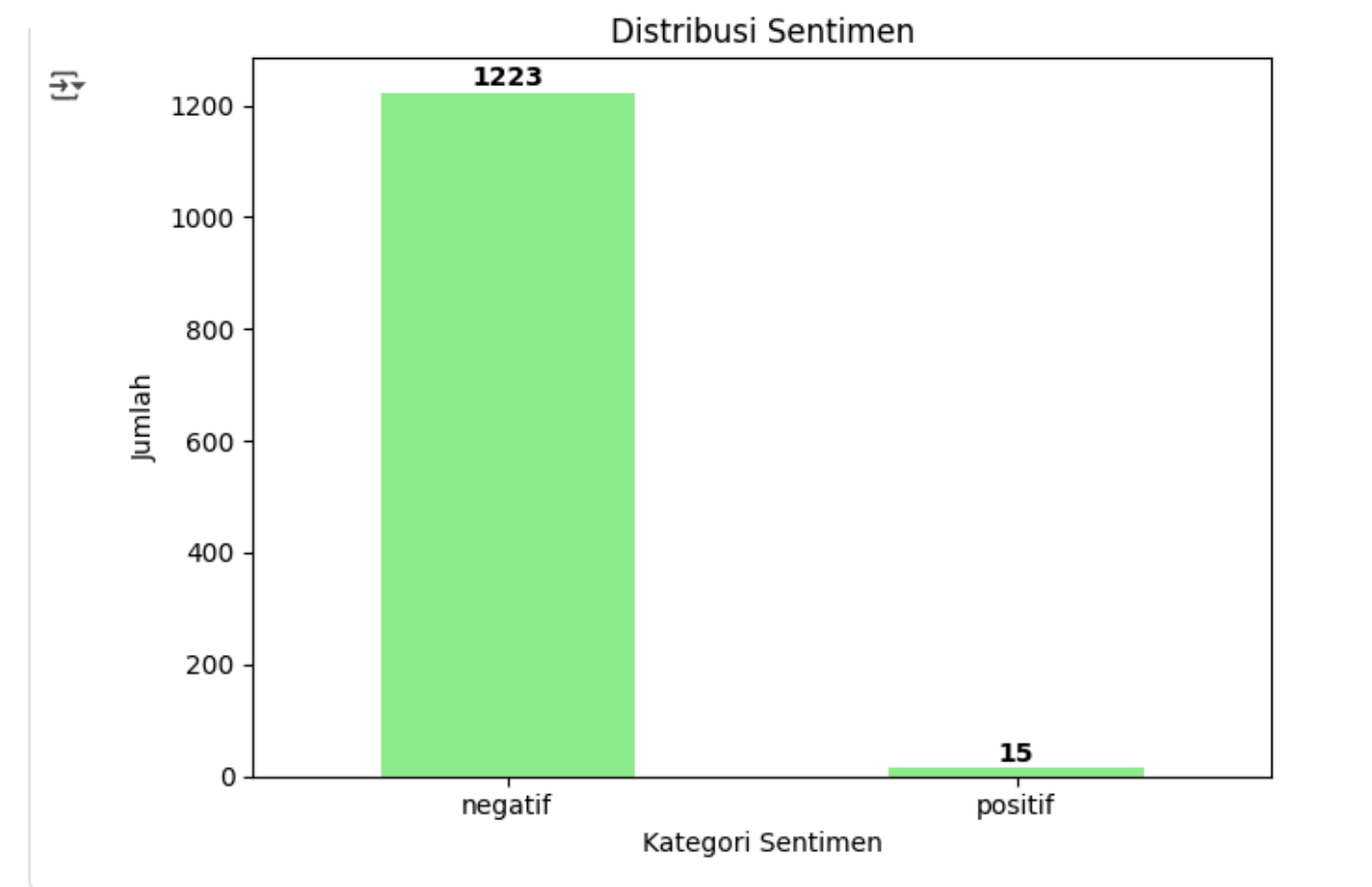
Dari hasil analisis sentimen terhadap data ulasan, diperoleh distribusi sebagai berikut:

Positif: 15 data (sekitar 1,4%)

Negatif: 1.223 data (sekitar 98,6%)

TRANSFORM RAW DATA INTO INSIGHT (KAGGLE DATA)

Kaggle is a website who serve free datasets for analysis purposes. The data is already in a good shape. Basically, all things i did in the X data are the same like i did using Kaggle data. There is only 1 difference which the data set i took from Kaggle was in english. Because my analysis was for indonesian, so i had to translate that first using a library in Python. The other next slides showed the processed of transforming the data into insight.

TRANSFORM RAW DATA INTO INSIGHT (KAGGLE DATA)

1 This is the raw data i took form a website called Kaggle


```
Tweet,Suicide
making some lunch,Not Suicide post
@Alexia You want his money.,Not Suicide post
@dizzyhrvy that crap took me forever to put together. iÃÂ€Â™m going to go sleep for DAYS,Potential Suicide post
@jnaylor #kiwitweets Hey Jer! Since when did you start twittering?,Not Suicide post
Trying out  Delicious L  with mixed results The bar code thought I wanted to add a sport bra instead of a drill Cool app
@ValenValdez Oh, that's good to hear. But is it over already? Or you'll continue it after the Holy week?,Not Suicide p
@mcm180 u've got a list for fellow #hotties? You gonna have to share that one Amigo!,Not Suicide post
@jakepaul @jamescharles @LoganPaul Just because shane made a Series on you Doesnt mean people take you serio
time for some warsaw beer garden chilling,Not Suicide post
I hate my life lmao I hope I die soon or sumn I'm too tired of everything,Potential Suicide post
Everything your lover does for you is for her survival, everything your mother does for you is for your survival.,Not Su
There is a stray cat on campus that looks like Garfield. The students are always feeding him, so he is very fat. Like me
is on the go...,Not Suicide post
I have an awful habit of avoiding writing papers by watching Instagram live videos of the kids I used to nanny forÃÂ€
@rivensky Haha. Well I have more but I don't have to do anything but file the rest away or delete them.,Not Suicide p
@Turbizzle Goooooood hwo're you?,Not Suicide post
@AkwesiQuan,,RT @animeesay: I want to say ill never be active again. Not quite sure, i dont have any reason to be o
Focus on opportunities more than you focus on money.,Not Suicide post
SOMEBODY PLEASE FUCKING KILL ME IM SO IN LOVE https://t.co/WbVmmKzDDh,Potential Suicide post
iÃÂ€Â™m at the point of the semester where iÃÂ€Â™m so tired of everything. I just want to roll over and die. Po
```

TRANSFORM RAW DATA INTO INSIGHT (KAGGLE DATA)
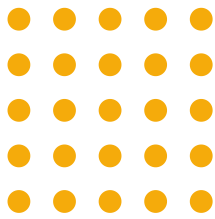
2 Next, I translated it and transformed that data into some columns that showed the preprocessing step.

	Review	text_clean	text_casefoldingText	text_slangwords	text_tokenizingText	text_stopword	text_stemming	text_akhir
0	Membuat makan siang	Membuat makan siang	membuat makan siang	membuat makan siang	['membuat', 'makan', 'siang']	['makan', 'siang']	makan siang	makan siang
1	@Alexia Anda menginginkan uangnya.	Anda menginginkan uangnya	anda menginginkan uangnya	anda menginginkan uangnya	['anda', 'menginginkan', 'uangnya']	['uangnya']	uang	uangnya
2	@dizzyhrvy omong kosong itu membutuhkan waktu ...	omong kosong itu membutuhkan waktu lama bagi s...	omong kosong itu membutuhkan waktu lama bagi s...	omong kosong itu membutuhkan waktu lama bagi s...	['omong', 'kosong', 'itu', 'membutuhkan', 'wak...	['omong', 'kosong', 'membutuhkan', 'menyatukan...	omong kosong butuh menyatukannyaaku tidur berh...	omong kosong membutuhkan menyatukannyaaku tidu...
3	@jnaylor #kiwitweets Hai JerlSejak kapan kamu ...	Hai JerSejak kapan kamu mulai berkicau	hai jersejak kapan kamu mulai berkicau	hai jersejak kapan kamu mulai berkicau	'hai', 'jersejak', 'kapan', 'kamu', 'mulai', ...	['hai', 'jersejak', 'berkicau']	hai jersejak kicau	hai jersejak berkicau
4	Mencoba & quot; Perpustakaan Lezat 2 & quot;De...	Mencoba quot Perpustakaan Lezat quotDengan ...	mencoba quot perpustakaan lezat quotdengan ...	mencoba quot perpustakaan lezat quotdengan has...	['mencoba', 'quot', 'perpustakaan', 'lezat', '...	['mencoba', 'quot', 'perpustakaan', 'lezat', '...	coba quot pustaka lezat quotdengan hasil agam ...	mencoba quot perpustakaan lezat quotdengan has...
5	@ValenValdez Oh, senang mendengarnya.Tapi apak...	Oh senang mendengarnyaTapi apakah ini sudah be...	oh senang mendengarnyatapi apakah ini sudah be...	oh senang mendengarnyatapi apakah ini sudah be...	['oh', 'senang', mendengarnyatapi', 'apakah',...	['oh', 'senang', 'mendengarnyatapi', 'berakhir...	oh senang mendengarnyatapi berakhiratau lanjut...	oh senang mendengarnyatapi berakhiratau melanj...
6	@ mcm180 kamu punya daftar sesama #hotties?And...	mcm kamu punya daftar sesama Anda harus membag...	mcm kamu punya daftar sesama anda harus membag...	macam kamu punya daftar sesama anda harus memb...	['macam', 'kamu', 'punya', 'daftar', 'sesama',...	['daftar', 'membagikan', 'amigo']	daftar bagi amigo	daftar membagikan amigo
7	@jakepaul @jamescharles @LoganPaul Hanya karen...	Hanya karena Shane membuat serial tentangmu Bu...	hanya karena shane membuat serial tentangmu bu...	hanya karena shane membuat serial tentangmu bu...	['hanya', 'karena', 'shane', 'membuat', 'seria...	['shane', 'serial', 'tentangmu', 'orangorang',...	shane serial tentang orangorang anggap serius y...	shane serial tentangmu orangorang menganggapmu...
8	saatnya bersantai di taman bir Warsawa	saatnya bersantai di taman bir Warsawa	saatnya bersantai di taman bir warsawa	saatnya bersantai di taman bir warsawa	['saatnya', 'bersantai', 'di', 'taman', 'bir',...	['bersantai', 'taman', 'bir', 'warsawa']	santa taman bir warsawa	bersantai taman bir warsawa
9	Aku benci hidupku lmao. Kuharap aku segera mat...	Aku benci hidupku lmao Kuharap aku segera mati...	aku benci hidupku lmao kuharap aku segera mati...	aku benci hidupku lmao kuharap aku segera mati...	['aku', 'benci', 'hidupku', 'lmao', 'kuharap',...	['benci', 'hidupku', 'lmao', 'kuharap', 'mati'...	benci hidup lmao harap mati tibatiba lelah	benci hidupku lmao kuharap mati tibatiba lelah

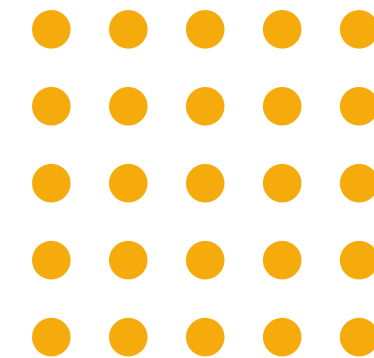# TRANSFORM RAW DATA INTO INSIGHT (KAGGLE DATA)
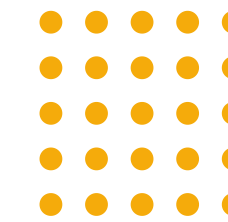
3 Last, I made an insight
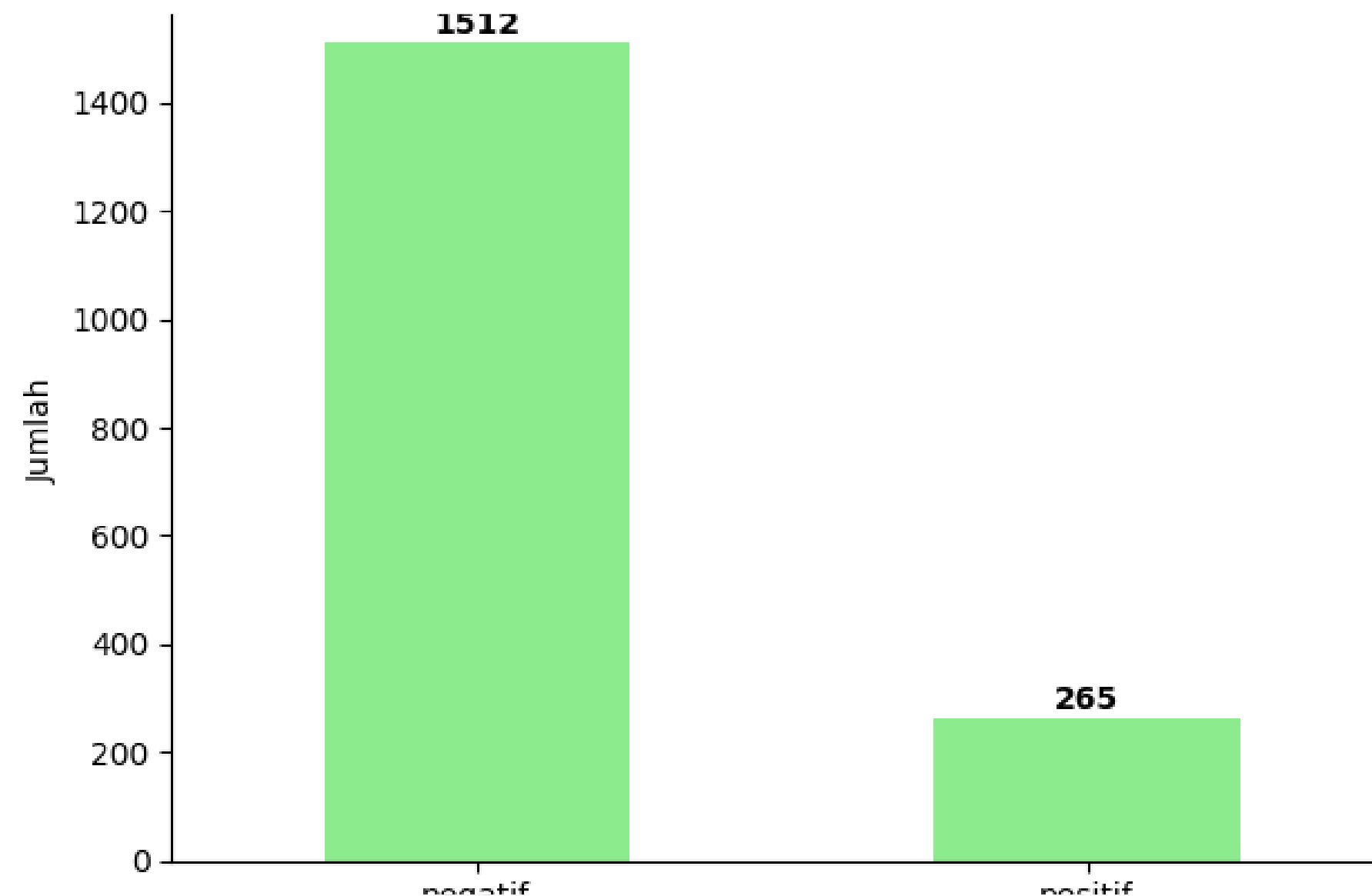
FINAL STATEMENT

I don't want to lie. I am not the best, but I am a fast learner. I know about data, I'm used to looking at data, I don't give up even if I see a lot of numbers. Instead, it makes me challenged, like a video game. If you want to know more about me, please contact me. I am a good speaker.

THANK YOU

Terimakasih

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