

Youtube

Text Analysis

Analyzing Video Komang - Raim Laode
using Sentiment, Bigram, Trigram Analysis
-Fauzan Ihza Fajar-



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Question Research

Question Research

The Indonesian music industry was shocked by Raim Laode's latest song, Komang. the song is trending among young people. A young singer from Wakatobi, Southeast Sulawesi, Raim Laode managed to break the record with the song "Komang" as the most-listened song for 24 hours or one day on Spotify Indonesia on April 3, 2023. Therefore, analyzing comments on YouTube can provide insight into their audience's ratings and opinions.



1.

how do song owners see how good the songs created are from the audience?



2.

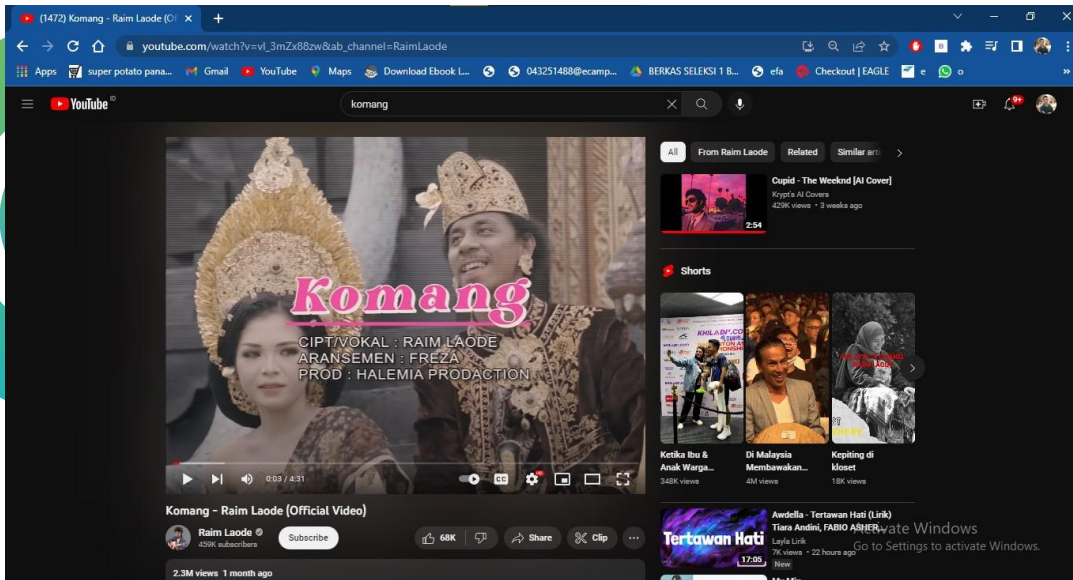
What responses did the audience give when they heard the song?



DATA

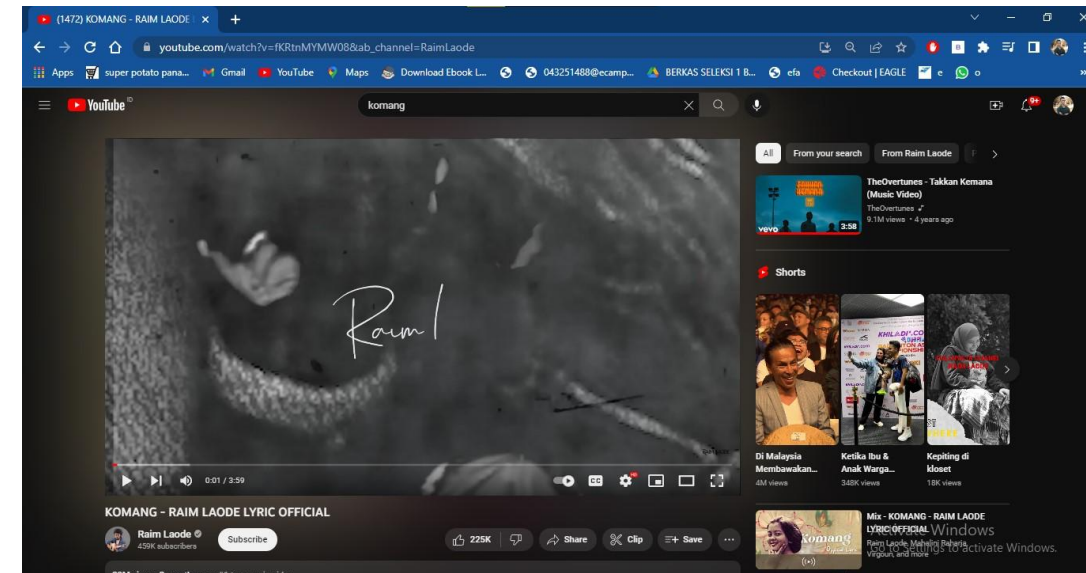
PROTECTION

**Collect
Data**



Collect Data

the data is taken from 2 video comments on the side on **May 1, 2023**. the scraping process is carried out using an extension tool from google sheet, namely **Apps script**



Results of Scraping Data

	A	B	C	D	E
1	Name	Comment	Time	Likes	Reply Count
2	Raim Laode	Lawan reuploader dengan nonton striming di tempat sem	2023-02-22T10:04:15Z	17305	495
3	sukma pradana	Mirip kayak lagu nya d4vd "Here With Me"	2023-05-11T03:13:15Z	0	0
4	KINGKONG	SANGAT MIRIP DENGAN BANYAK POTONG LAGU YA	2023-05-11T01:07:21Z	0	0
5	C'tiwul Wulan	Jika Lagu mengubah Mood mu maka AI'quran men	2023-05-11T00:25:01Z	0	0
6	molly manjaseka	Dan apabila tak bersamamu kupastikan jalani dunia tak s	2023-05-10T22:16:27Z	0	0
7	Preparasi SCCI	KUKIRA LAGU SEKALINYA KISAHKU	2023-05-10T14:32:29Z	0	0
8	Mbah Joyo	Lagu untuk emak	2023-05-10T12:04:26Z	0	0
9	nthofa	Kata "DIA" siapa yang dimaksud ya? Aku bel	2023-05-10T11:11:23Z	1	0
10	Melodi Bharadut	https://youtu.be	2023-05-10T11:01:11Z	1	0
11	pogogogo	Ternyata ini lagunya raim laode, gilaaa keren bgtttt!!!! Ter	2023-05-10T10:23:54Z	1	0
12	Vania	P	2023-05-10T08:10:46Z	1	0
13	Soneta F	Baru 2 hari lalu denger di Cafe langsung terngiang-ngian	2023-05-10T07:11:01Z	1	0
14	Jang Pitro	Duh.. jadi terkomang-komang	2023-05-10T07:01:47Z	1	0
15	Ilham good	enak bgt lagu nya	2023-05-10T05:31:16Z	1	0
16	YK	Terkomang komang si ini, nggak bosan dengernya	2023-05-10T02:13:25Z	1	0
17	RIAN	□	2023-05-10T01:38:51Z	2	0
18	Siapakah Kitw	😭	2023-05-10T00:07:15Z	1	0
19	miyuki chan	nangis bgtt denger ini lagu'(2023-05-09T18:08:28Z	1	0
20	Easi Ali Pratomo	Semua tentang kedua orang tua ya tak bisa mengerti. S	2023-05-09T17:26:00Z	1	0

	A	B	C	D	E
1	Name	Comment	Time	Likes	Reply Count
2	Raim Laode	dengarkan juga	2023-04-01T06:00:00Z	408	33
3	Sumedana Nyor	Auto mewek...lih	2023-05-11T02:00:00Z	0	0
4	Idin Kholidin	Endingnya bikin	2023-05-11T02:00:00Z	0	0
5	G U S	Bagai mana ini s	2023-05-11T01:00:00Z	0	0
6	Asis Yulianto	ADLANI RAMBE	2023-05-11T01:00:00Z	1	0
7	Dwi Rahmawati	Baru denger lagu	2023-05-10T16:00:00Z	0	1
8	Michelle L	Terlalu indah lag	2023-05-10T14:00:00Z	0	0
9	Bunmma Story	I really like this s	2023-05-10T14:00:00Z	1	0
10	GoPlong	Terkomang komang	2023-05-10T13:00:00Z	0	0
11	pogogogo	Aku berdoa kpd	2023-05-10T10:00:00Z	0	0
12	Rahayu Umayati	🥰 saya baru ta	2023-05-10T09:00:00Z	0	0
13	Santri GusDur	Nangis aku..	2023-05-10T08:00:00Z	0	0
14	andri rosdiana	Masha Allah.. Se	2023-05-10T07:00:00Z	0	0
15	Diah Larasati	Baru liat video in	2023-05-10T06:00:00Z	0	0
16	Irwan Silva	Video clip ini me	2023-05-10T05:00:00Z	0	0
17	Maleo-X	Seneng lu ode..	2023-05-10T04:00:00Z	0	0
18	aa' aken	indonesia timur	2023-05-10T04:00:00Z	0	0
19	Azis Agustiana	SEBAB SYAIR M	2023-05-10T02:00:00Z	0	0
20	Andi Sunardi	Baru denger lagu	2023-05-10T01:00:00Z	0	0

Collecting Data

then I combine the two data as a dataframe and
the data can be processed to the next step

	Name	Comment	Time	Likes	Reply Count
0	Raim Laode	dengarkan juga vidio klip Snag Badut Raim Laod...	2023-04-01T06:30:34Z	368	30
1	Randomica	keren kao bang	2023-05-02T03:34:05Z	1	0
2	hidayat Nrd	Specless ❤️	2023-05-01T20:02:23Z	1	0
3	G Entity	Terima kasih kerana membawa lagu ini ke dunia.	2023-05-01T15:07:38Z	1	0
4	wirawan wicaksono	Video wedding yg ditonton se Indonesia. Semoga...	2023-05-01T14:55:27Z	1	0
...
3245	Nyak All	2 tahun lalu	2023-02-22T07:00:31Z	1	0
3246	MISWAR - MDM Official	Mantap	2023-02-22T07:00:02Z	1	0
3247	lies eka	Nggak pernah bosan dengerin lagu ini syair &am...	2023-02-22T06:57:43Z	56	0
3248	Fiqri Adji prayogo	The best	2023-02-22T06:54:47Z	1	0
3249	Budi Hastono	Best lagunya bang, Keren sangat. Beneran, mema...	2023-02-21T05:13:56Z	7	0



Data Processing

Data Processing.

Data Cleaning

- convert to the lower text
- delete url, html tags
- delete special character
- remove short word(number of letters > 2)

Stemming

- import **Satrawi.Stemmer**
- stemming the word

Stopwords

- import **Satrawi.StopWordRemover**
- remove stopwords

Sentiment Analysis

- import **transformer**
- use pretrain model from **mdhugol/indonesia-bert-sentiment-classification**
- giving sentiment score
- put on the category (Positive/Negative/Neutral)

Analyzing

- Import **CountVectorizer**
- Word Analysis
- Bigram Analysis
- Trigram Analysis



Investment Returns to Date

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

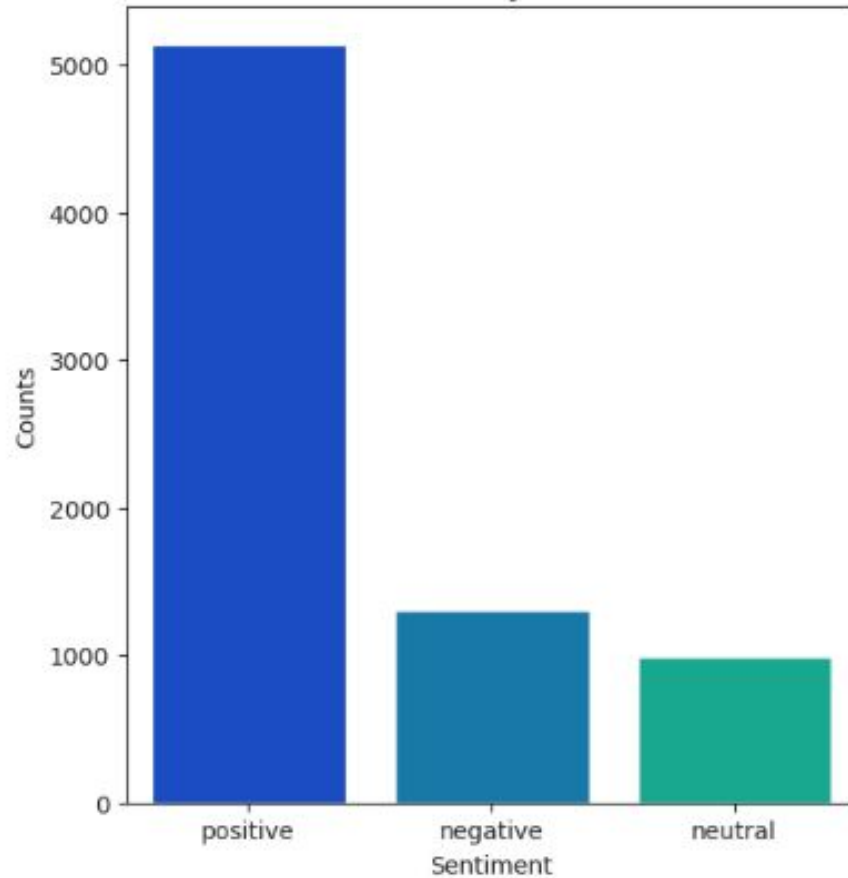


02	15000	15000	15000	15000
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100	15000	15000	15000	15000

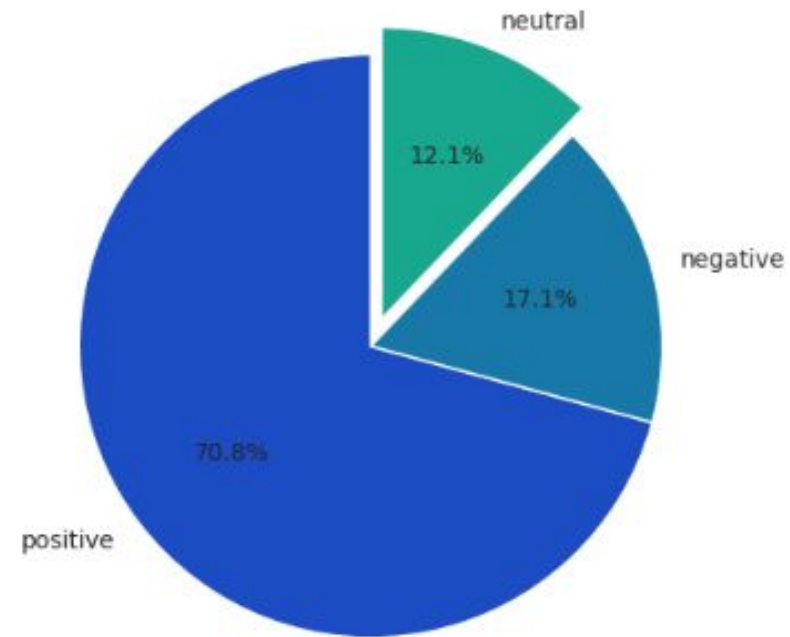
Analyzing Data



Sentiment Analysis (Bar Plot)



Sentiment Analysis (Pie Chart)



Analyzing Sentiment

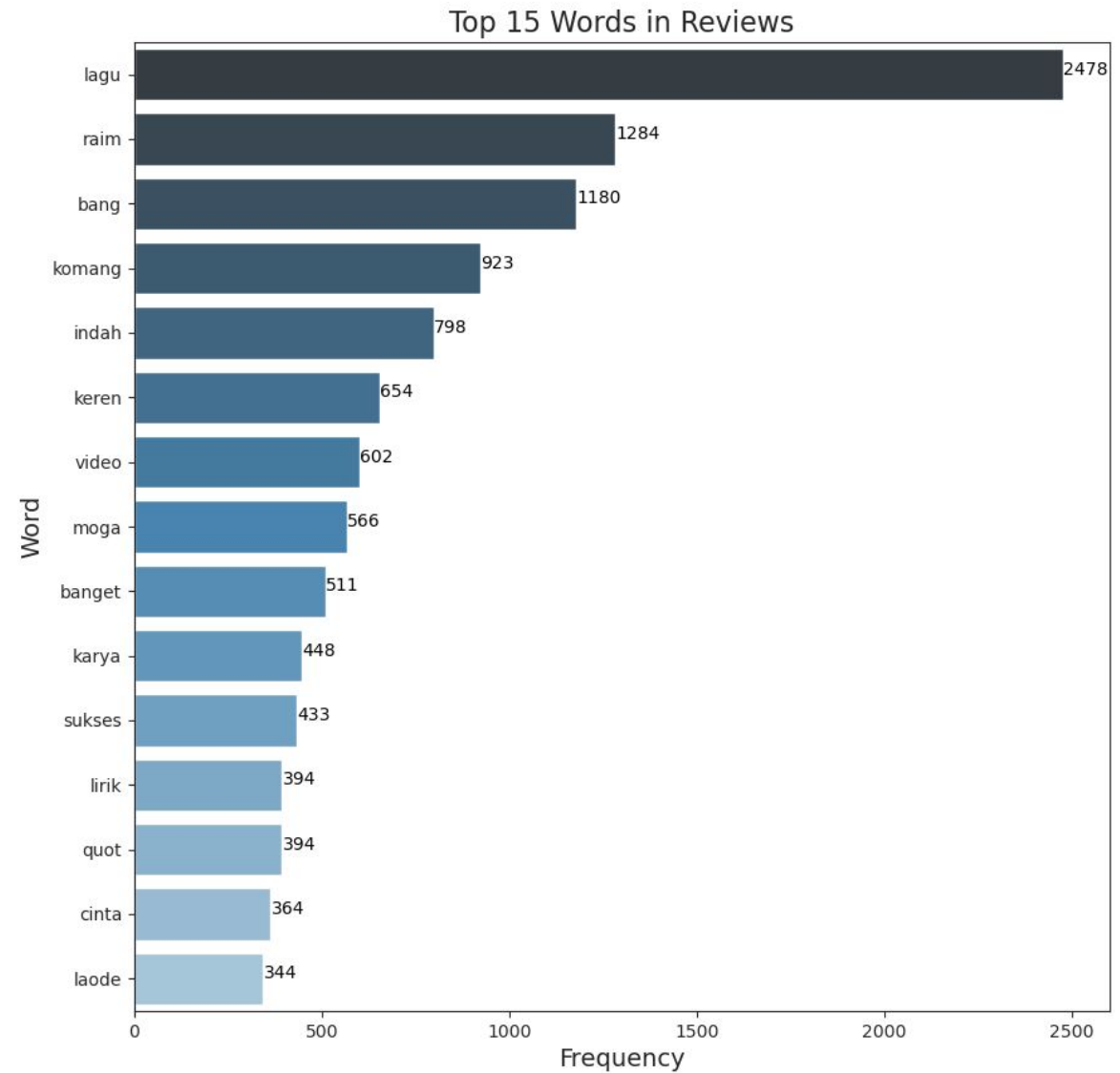
from the results of sentiment analysis, it can be seen

70,8% positive comments, **17,1%** negative comments,

12,1% neutral comments

Word Analysis

indah and **keren** describes the message impression of the song that is heard by the audience.



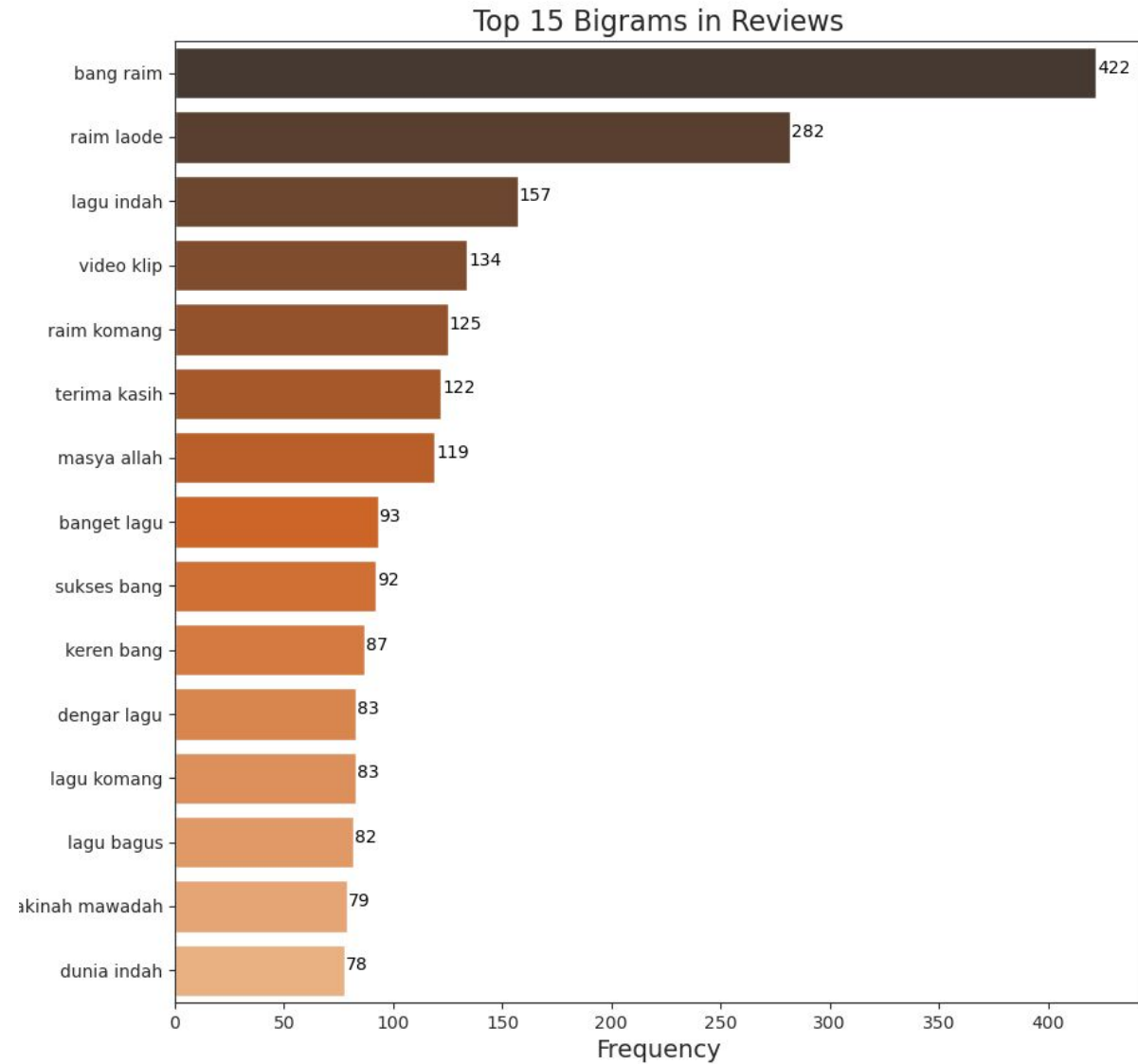
Bigrams Analysis

lagu indah

audience feel impressed and amazed

terima kasih

audiences feel very grateful for the song komang provided by raim laode



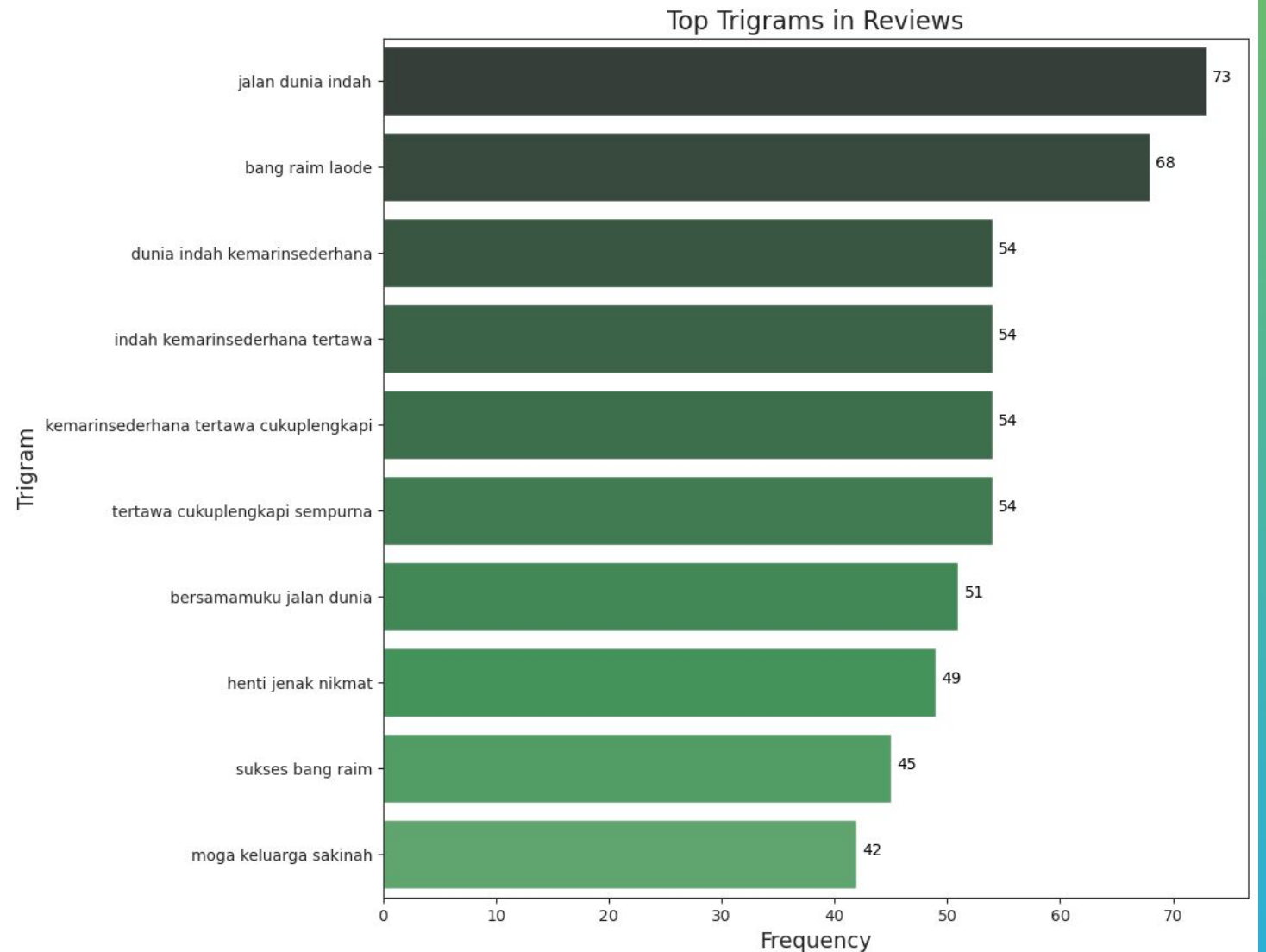
Trigrams Analysis

sukses bang raim

the audience gave a prayer so that the songwriter would be successful in the future

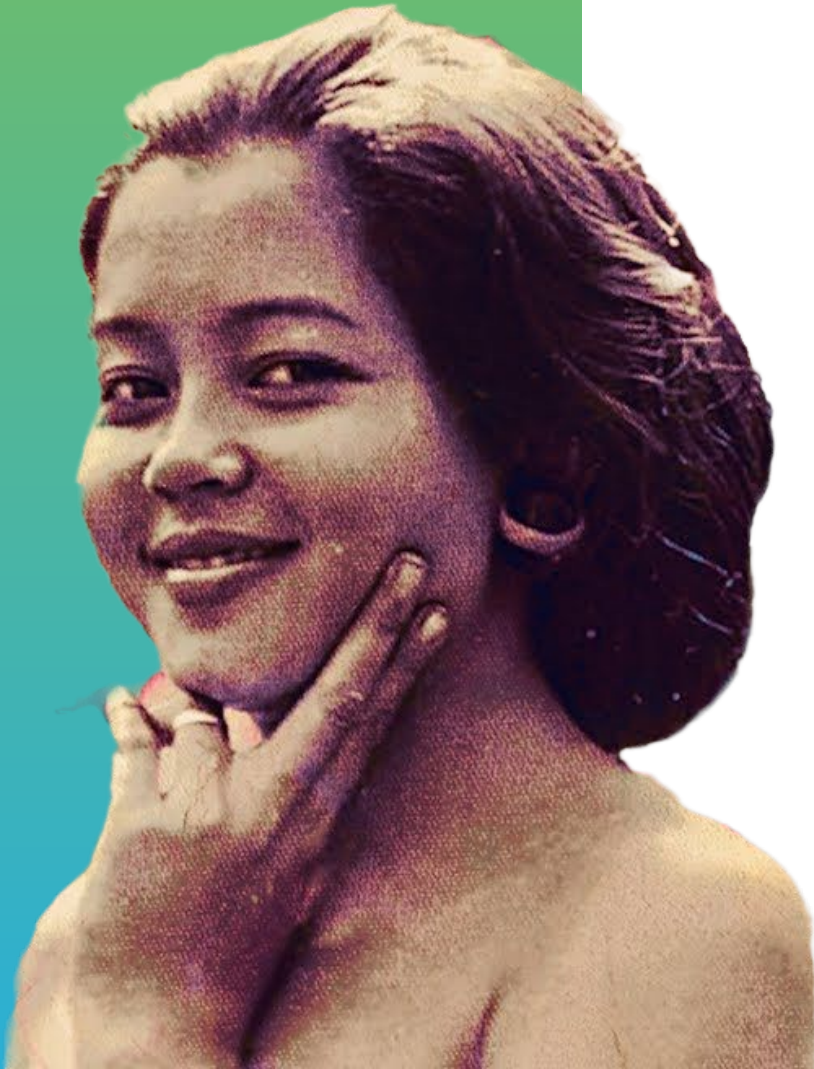
moga keluarga sakinah

the audience offered prayers so that the creator family would always be istoqomah in Allah's way



CONCLUSION





1. How do song owners see how good the songs created are from the audience?

from the results of sentiment analysis, it can be seen **70,8%** positive comments, **17,1%** negative comments, **12,1%** neutral comments

2. What responses did the audience give when they heard the song?

the audience gave thanks, appreciated and gave prayers to the songwriter and his family for success and health