

Sentiment Analysis of MST Nepal and its Competitors







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Overview

- This report analyses the sentiment of user reviews for EdTech platforms of Nepal on Play Store. It is based on the data collected on July 3, 2023.
- The scope of the work includes comparing the reviews of mySecondTeacher with three competitors.
- The findings of the report highlights the strengths and weaknesses of EdTech platforms.

Data Summary

				
Downloads	10k+	100k+	100k+	10k+
Average rating	4.2	3.9	4.5	4.2
Total review comments	112	673	295	216
Average rating from review commenters	2.9	4.0	3.5	4.25

Word Cloud

*Bigger and bolder words are mentioned often in the reviews

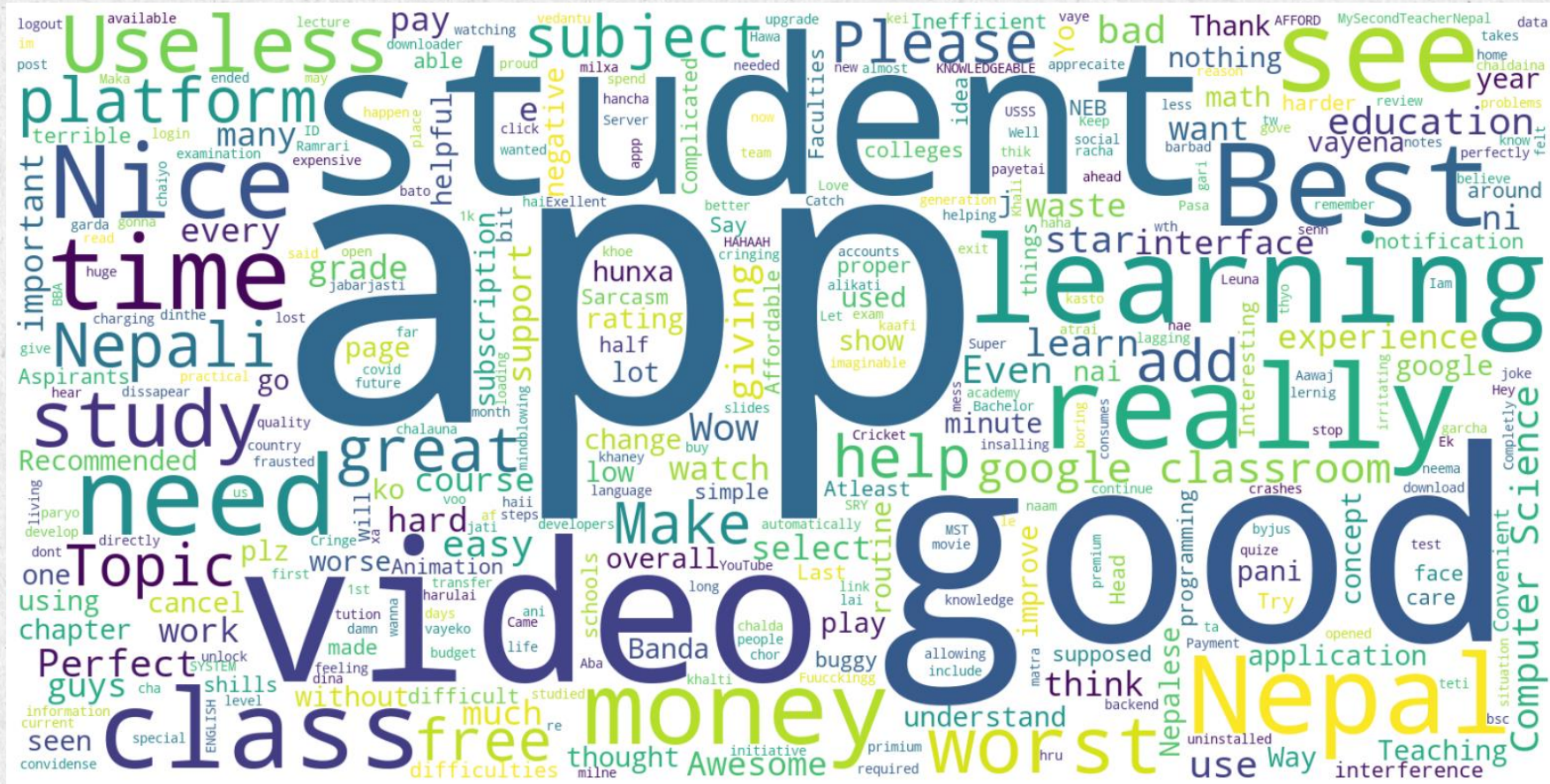


Fig: Word cloud of mySecondTeacher app reviews

Word Cloud



Fig: Word cloud of MiDas eCLASS app reviews

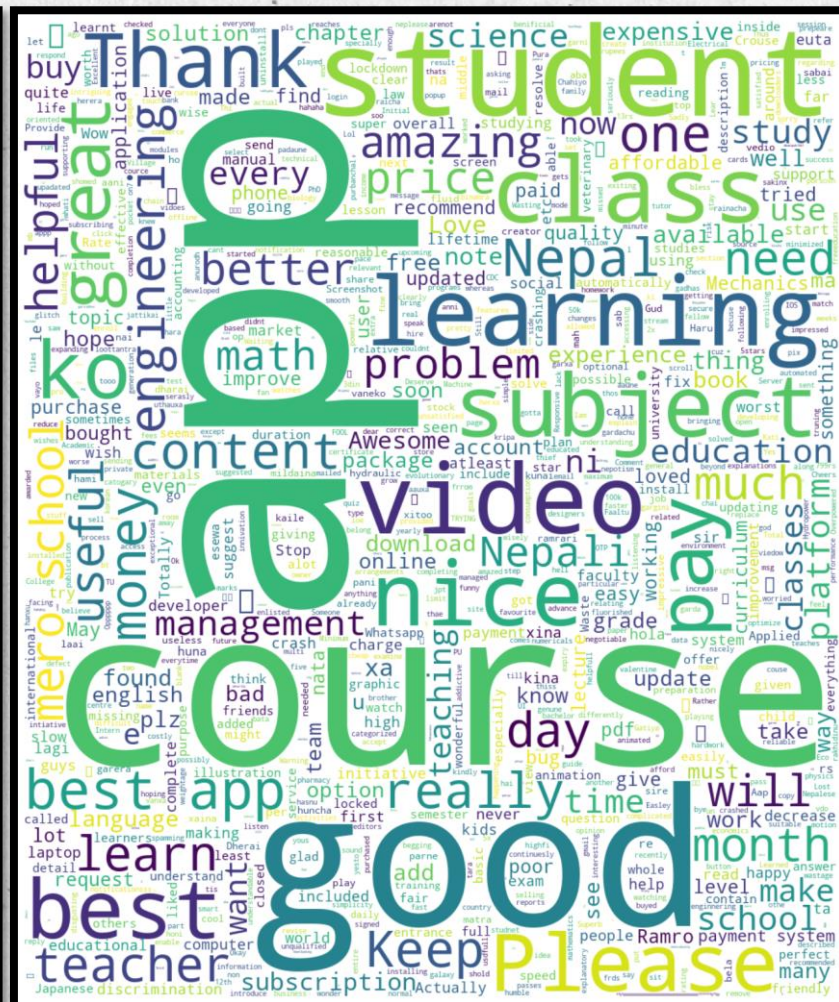
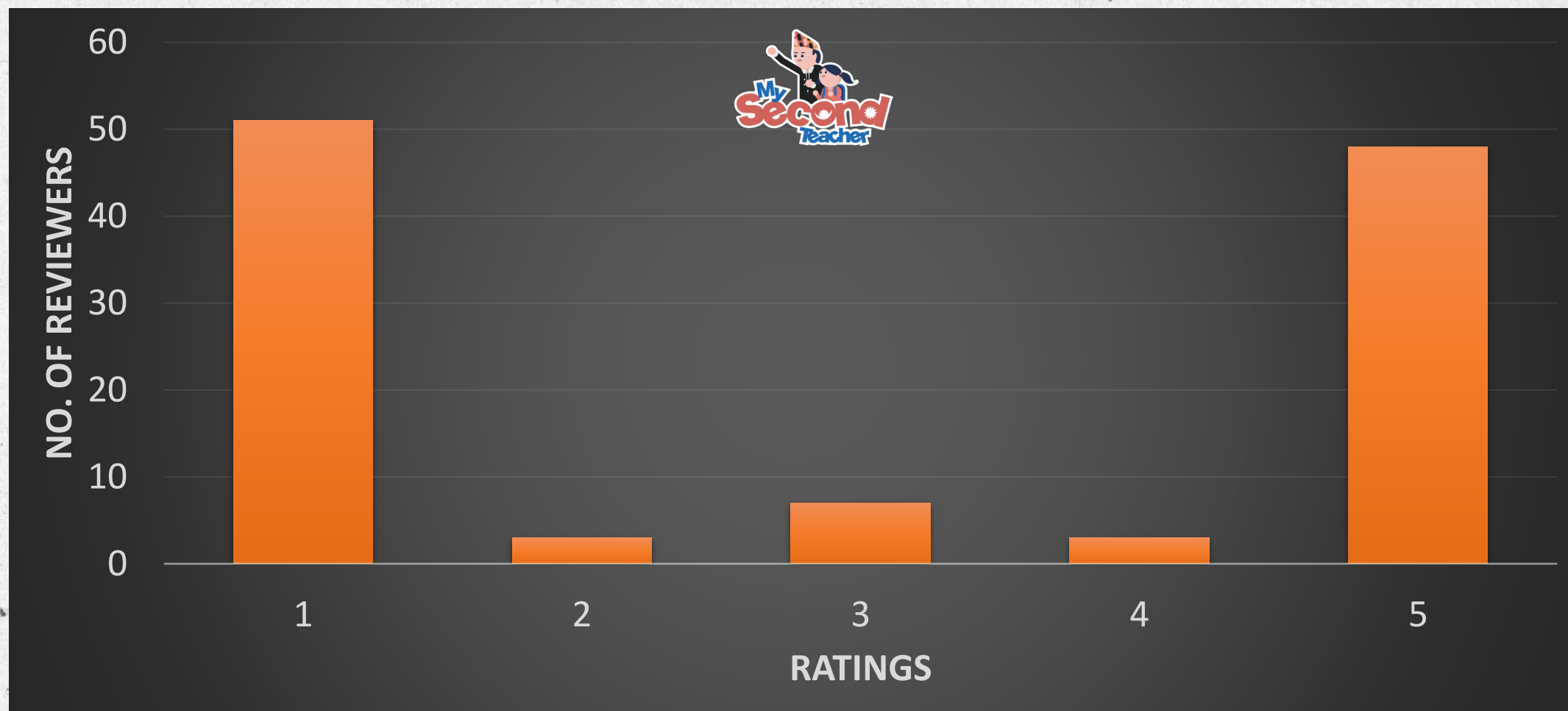


Fig: Word cloud of Mero School app reviews

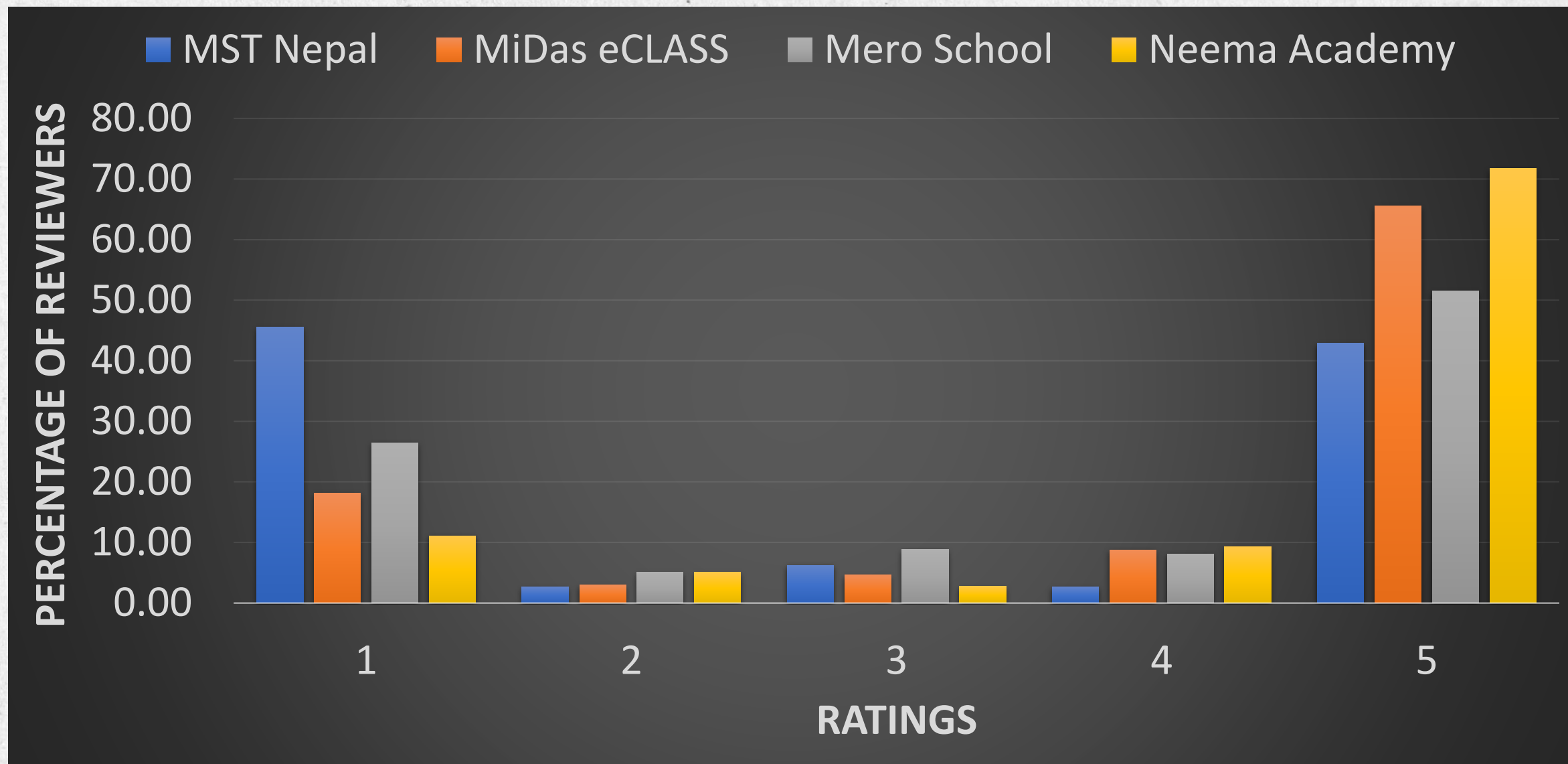


Fig: Word cloud of Neema Academy app reviews

Ratings from reviewers



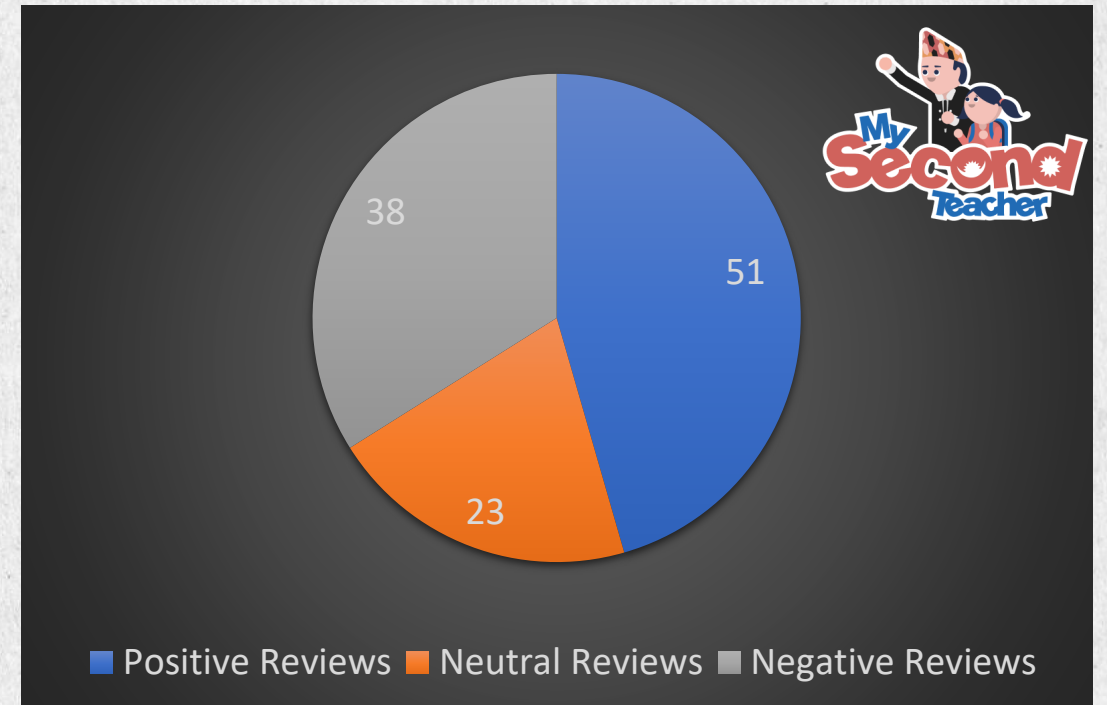
Comparing ratings from reviewers



Reviews sentiment

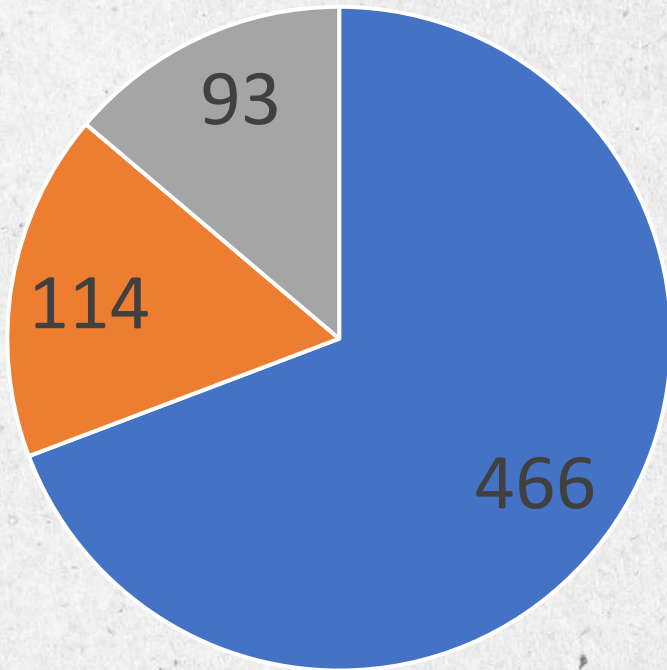
- The reviews are classified as positive, negative, and neutral using RoBERTa, a transformer based language model.

Note: Transformers are a type of artificial neural network and are behind the latest advancement in the field of AI. The AI chat bot, Chat GPT is also build using transformer based architecture.

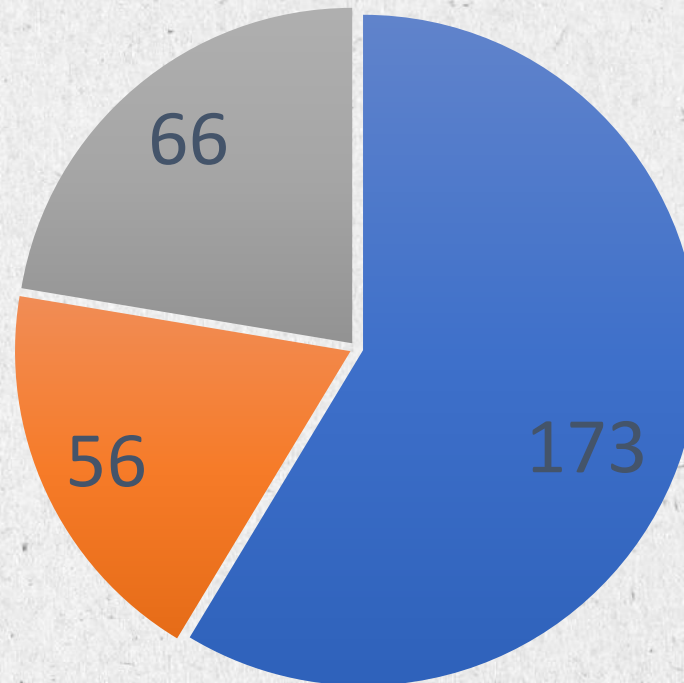


Reviews sentiment

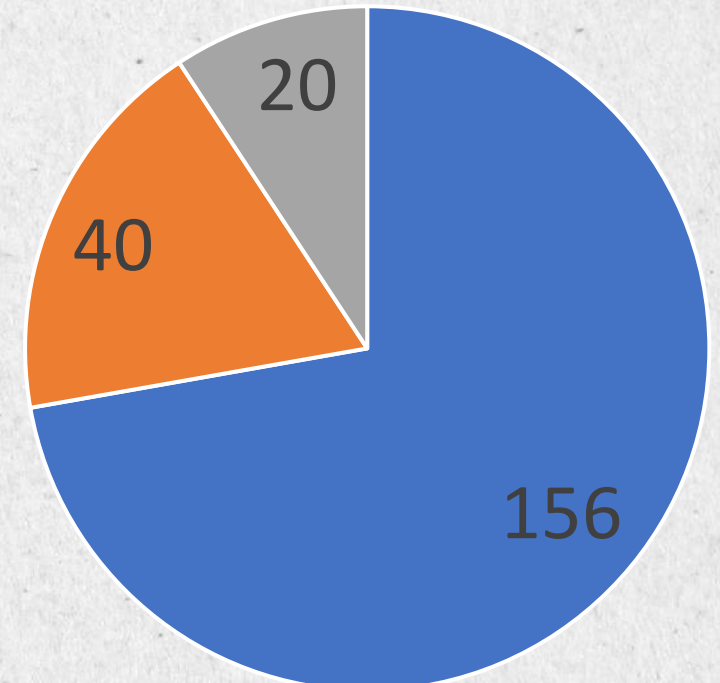
■ Positive Reviews ■ Neutral Reviews ■ Negative Reviews



MIDAS E-CLASS
SIMPLIFYING LEARNING



MERO School
पढाईको नयाँ FUNDA



neema
academy

Popular word in positive reviews



- Good
- Student
- Best
- Learning
- Nepal
- Platform



- Good
- Teacher
- Student
- Subject
- Platform
- eclass



- Good
- Student
- Course
- Learning
- Video
- Nepal



- Good
- Student
- Learning
- Subject
- Teacher
- Content

Popular word in neutral reviews



- Video
- Class
- Subject
- Chapter
- Need
- Vayena



- Coin
- Gift
- Quiz
- Subject
- Time
- Dami



- Class
- Course
- Management
- Science
- Update
- Price



- Subject
- Solution
- Class
- Course
- Study
- Nepali

Popular word in negative reviews



- Google
- Money
- Bad
- Free
- Worst
- Waste



- Class
- Fix
- Worst
- Fake
- Computer
- Subject



- Course
- Pay
- Subject
- Video
- Student
- Math



- Problem
- Working
- Signing
- Content
- Downloaded
- OTP

Popular tuple in positive reviews



- Topic video
- Science topic
- Perfect e-learning



- Good app
- Payment system
- Online learning



- Nice app
- Learning app
- Animated videos



- Nice app
- Class 10
- Quality education

Popular tuple in neutral reviews



- Select class
- Login go
- Directly home



- Management course
- Class 12
- Fluid mechanic



- Get coin
- Class join
- App fake



- Account class
- Science subject
- Class 12

Popular tuple in negative reviews



- Worst app
- Google classroom
- App ever



- Worst app
- Buy course
- Subject course

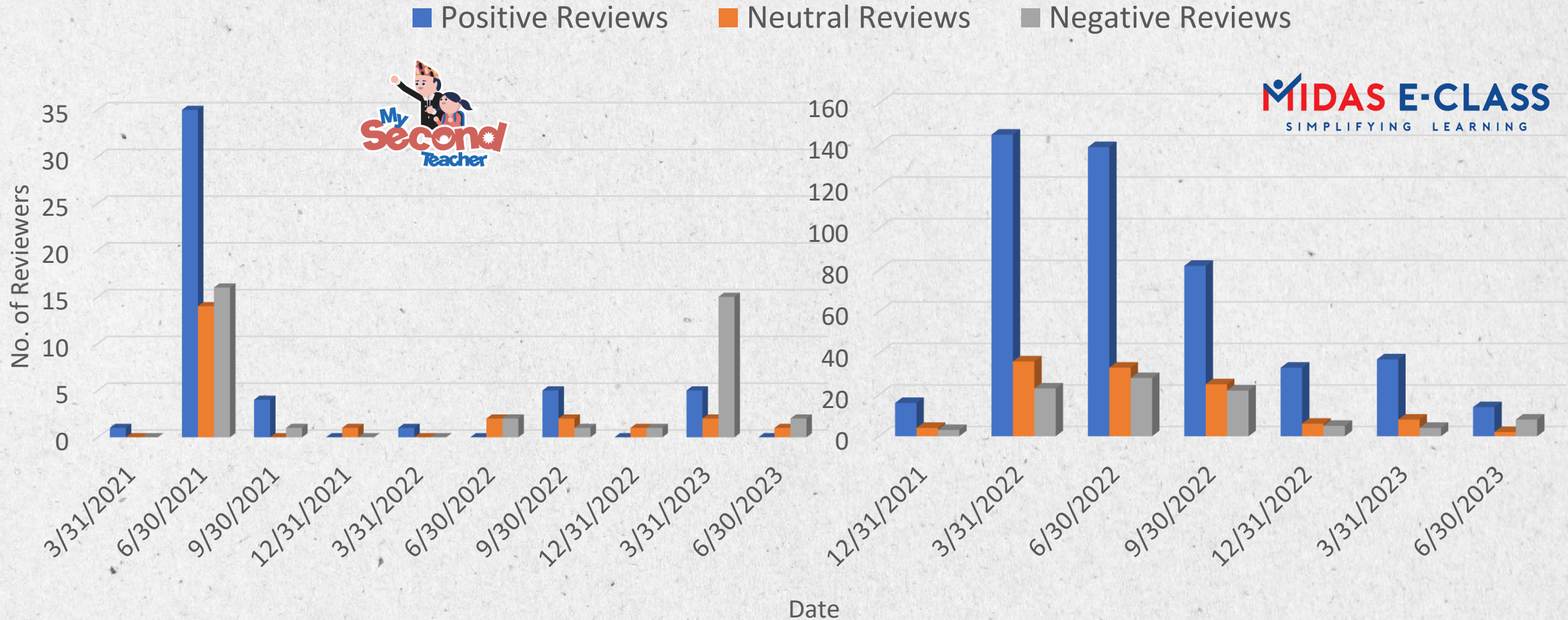


- Computer subject
- Online class
- Daily quiz

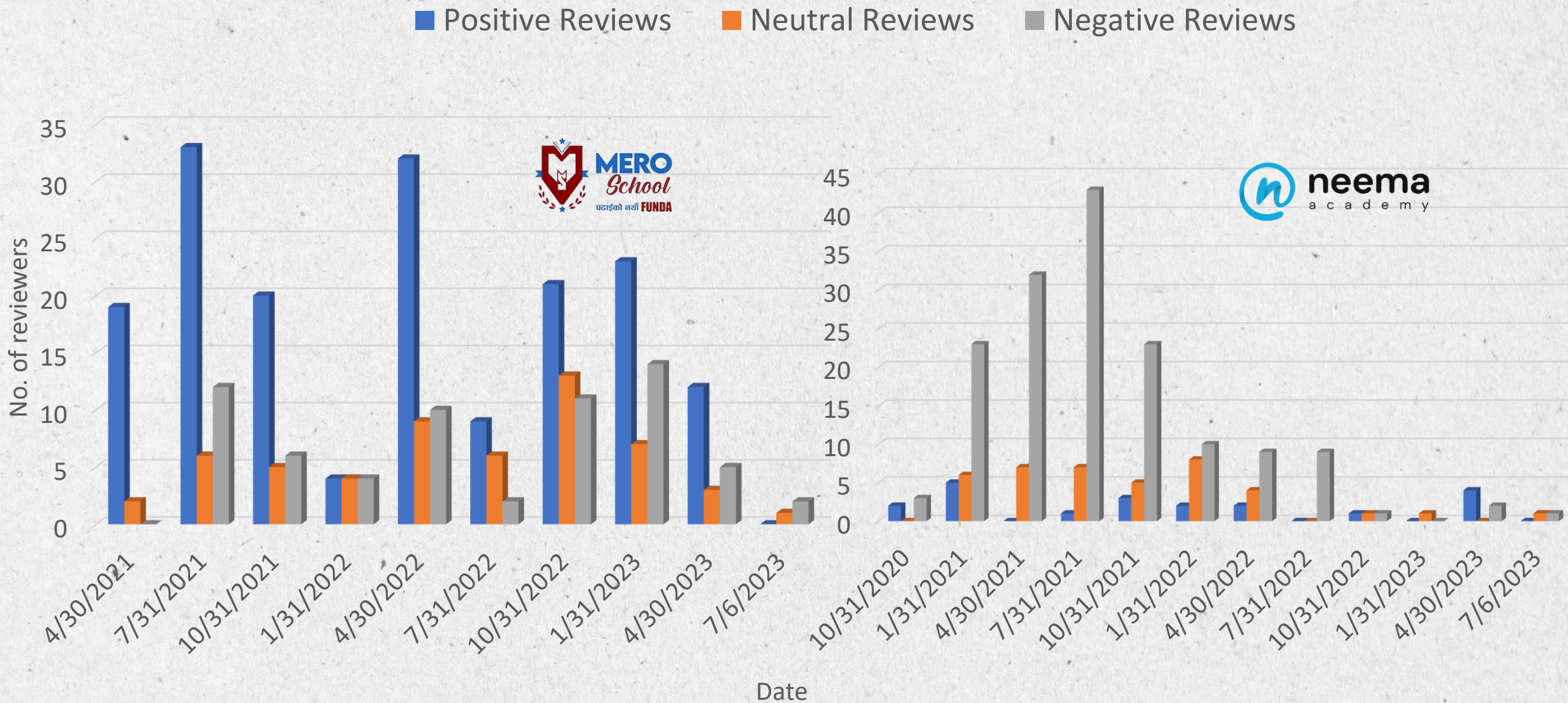


- Downloaded content
- Problem signing
- Enter opt

Reviews sentiment at different period



Reviews sentiment at different period



Findings

01

Positive reviews regarding course materials and applied pedagogy. Previously had sign in issues which seems resolved.



02

Negative reviews are higher than positive reviews in 2023 (slide 16). Most of these reviews are related with technical issues and pricing.



03

Reviewers in different platforms are found requesting for computer science subject. There was also a review in mySecondTeacher. This can be seen as an opportunity for growth.



Findings

04

Online classes and quizzes have a lot of problems.

05

Many negative reviews are associated with the course content and its quality.

06

Has issues on signing in and OPT. Many negative reviews are related to OPT.

Limitations

- The report is only based on reviews provided at Play Store.
- Most of the reviews in Romanized Nepali are classified as neutral because the model, RoBERTa is not trained focusing on such texts.
- Many fake accounts are used for reviews. This adds some inaccuracy in the findings.
- Some positive reviews seems to come from the people associated with the respective EdTech platform. So, there exist little biasness in the report.

References

- <https://mysecondteacher.com.np/wp-content/uploads/2021/03/mst-nepal.png>
- <https://www.midaseclass.com/assets/eacademy/images/logo.png>
- <https://mero.school/themes/assets/images/logo-dark.png>
- https://english.onlinekhabar.com/wp-content/uploads/2021/07/neema_logo.png

Python modules used for research & analysis

- google_play_scraper
- pandas
- numpy
- re
- collections
- matplotlib.pyplot
- wordcloud
- tqdm.notebook
- nltk
- nltk.corpus
- nltk.stem
- nltk.tokenize
- string
- contractions
- transformers
- scipy.special