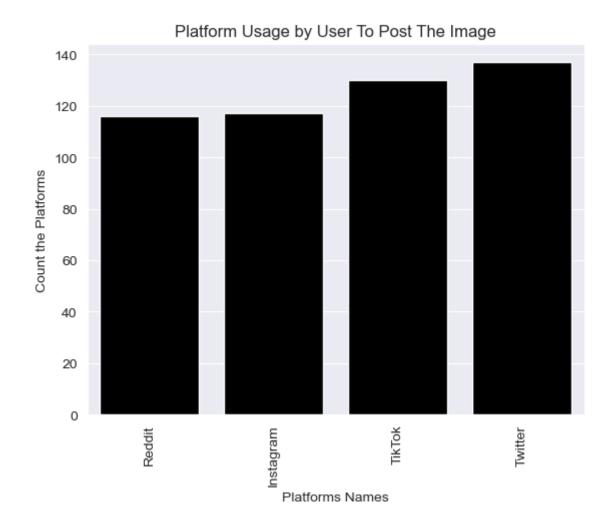
Exploratory Data Analysis on Ghibli-Style Image Generation Trends 2025

ANALYSIS BY VIVEK CHAUHAN

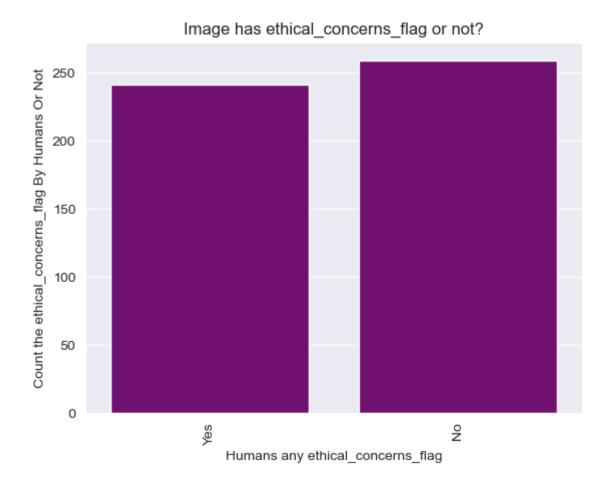
15-04-2025

Insights Covered:-

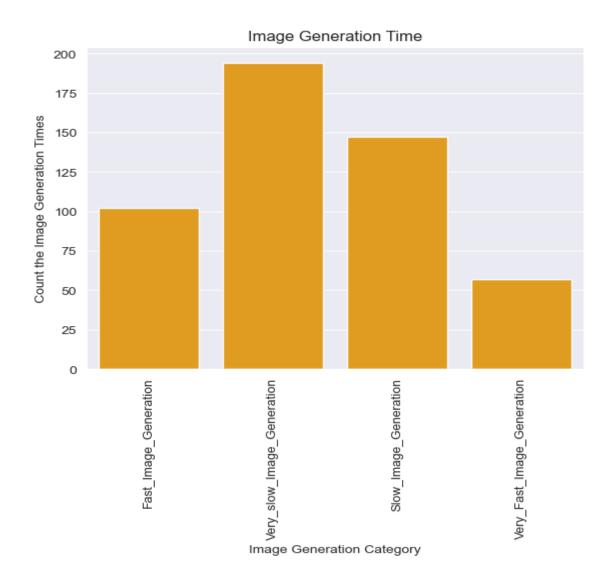
- Platform-wise Performance
- Prompt Popularity, Word Frequency in Prompts & Comments Insights
- Date, Time & Day-wise Trends
- Technical Metrics Insights (GPU Usage, File Size, Accuracy Score)
- Hand Edited vs Non-Edited Image Analysis
- Ethical Concern Flag Analysis
- Key Observations & Insights



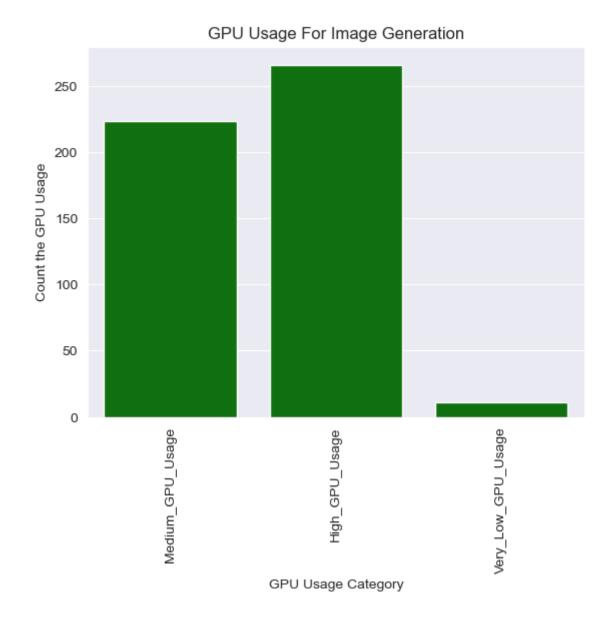
As per the Countplot the Twitter Platform Is most trending to post Ghibli Style Images.



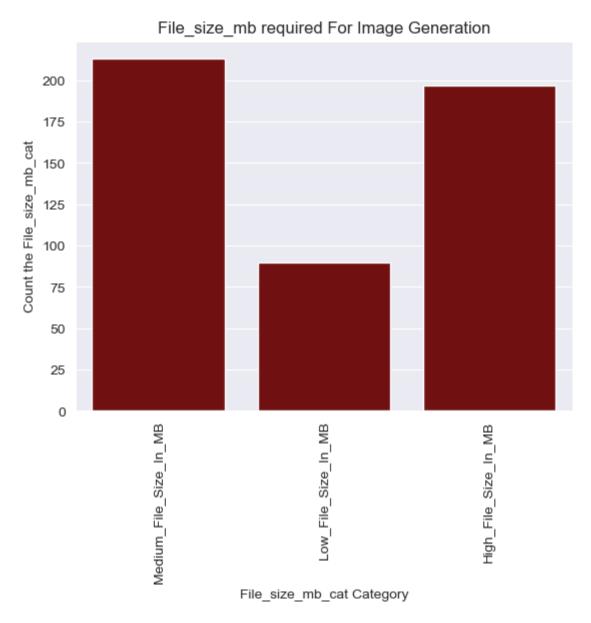
Most of the users has no ethical_concerns_flag to create the Ghibli style image.



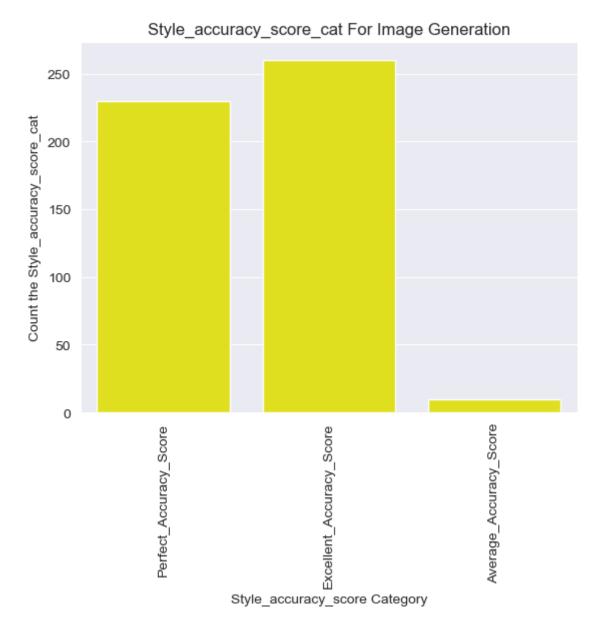
Most of the image is generated in a very slow image generation time.



Most of the image Gpu usage in a high gpu usage category.

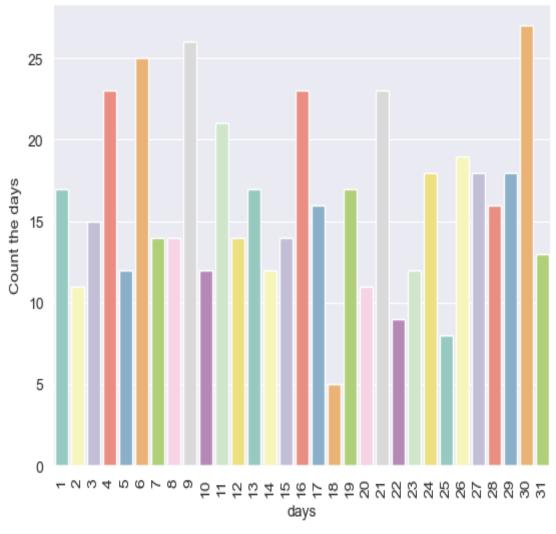


Most of the images is generated in the medium file size in mb means majority of the images are generated in the category of 1 to 3 mb.



Most of the image is generated and user gives Excellent Accuracy Score.

Count day wise Image Generation



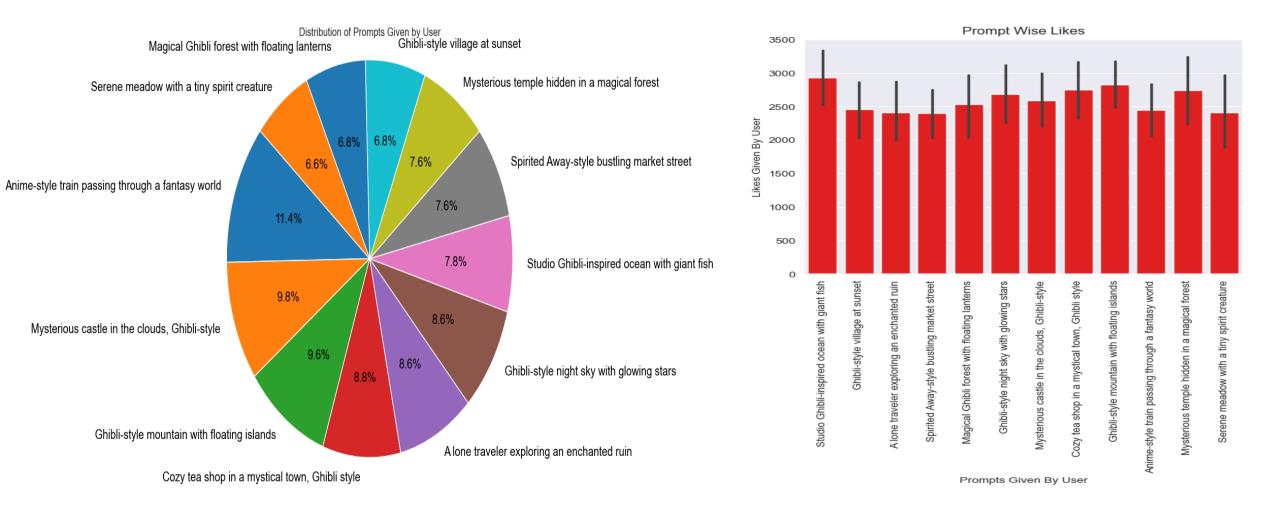
Most of the images are generated on 3rd & 30th March.

```
[50]: from collections import Counter
import nltk
from nltk.corpus import stopwords
# Download stopwords (only needed once)
nltk.download('stopwords')
# Get English stopwords
stop words = set(stopwords.words('english'))
# Create an empty list to store words
all words = []
# Extend all words from the prompt column into one list
for prompt_text in data['prompt']: # Loop through each entry in the prompt column
    all_words.extend(prompt_text.split()) # Split the text into words and extend the list
# Filter out stopwords and single-character words
filtered words = [word for word in all words if word.lower() not in stop words and len(word) > 1]
# Count the frequency of each word
word freq = Counter(filtered words)
# Print the 5 most common words
print(word freq.most common(5))
[('Ghibli-style', 174), ('Mysterious', 87), ('floating', 82), ('Ghibli', 78), ('forest', 72)]
[nltk_data] Downloading package stopwords to C:\Users\VIVEK
                CHAUHAN\AppData\Roaming\nltk_data...
[nltk_data]
[nltk data] Package stopwords is already up-to-date!
```

You can see the 'Ghibli-style', 'Mysterious', 'with' is the most common words while prompting.

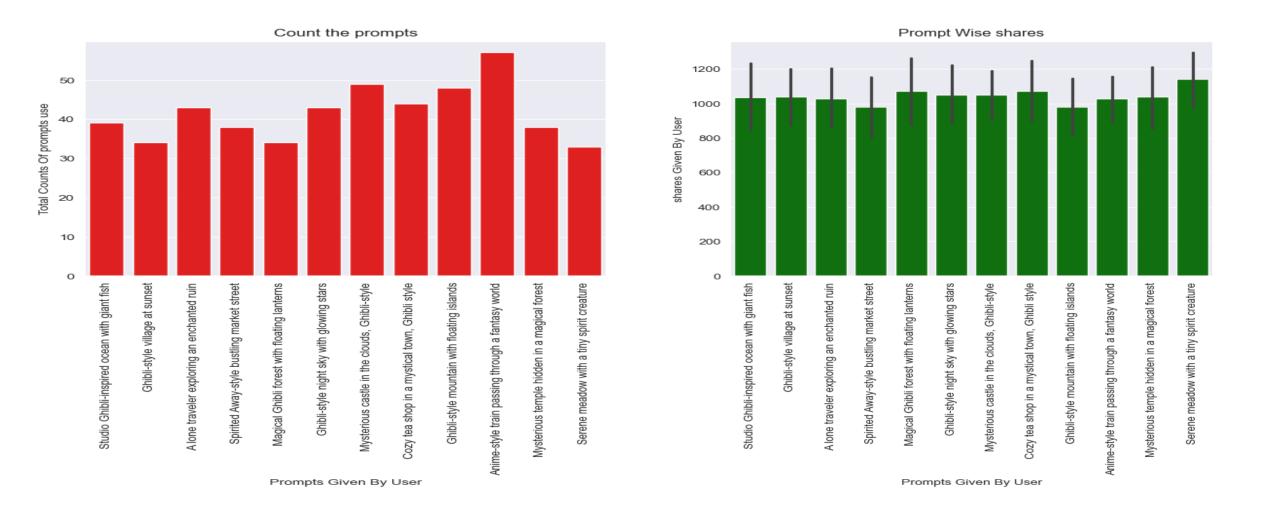
```
[100]: from collections import Counter
 import nltk
 from nltk.corpus import stopwords
 # Ensure stopwords are downloaded (only needed once)
 nltk.download('stopwords')
 # Get English stopwords
 stop_words = set(stopwords.words('english'))
 # Create an empty list to store words
 all comment words = []
 # Loop through each entry in the top comment column
 for comment_text in data['top_comment']:
     if isinstance(comment text, str): # Ensure it's a string
         all comment words.extend(comment text.split()) # Split into words
 # Filter out stopwords, single-character words, and numeric words
 filtered comment words = [word for word in all comment words
                           if word.lower() not in stop words
                           and len(word) > 1
                           and not word.isdigit() # Exclude numeric words
                           and word.isalpha()] # Only alphabetic words
 # Count the frequency of each word
 comment word freq = Counter(filtered comment words)
 # Print the 5 most common words
 print(comment_word_freq.most_common(5))
 [('Ghibli', 95), ('AI', 76), ('believe', 54), ('lighting', 53), ('atmosphere', 53)]
 [nltk data] Downloading package stopwords to C:\Users\VIVEK
 [nltk data]
                 CHAUHAN\AppData\Roaming\nltk data...
 [nltk_data] Package stopwords is already up-to-date!
```

Most common word in the top comments is 'Ghibli', 'AI', 'believe', 'lighting', 'atmosphere'.

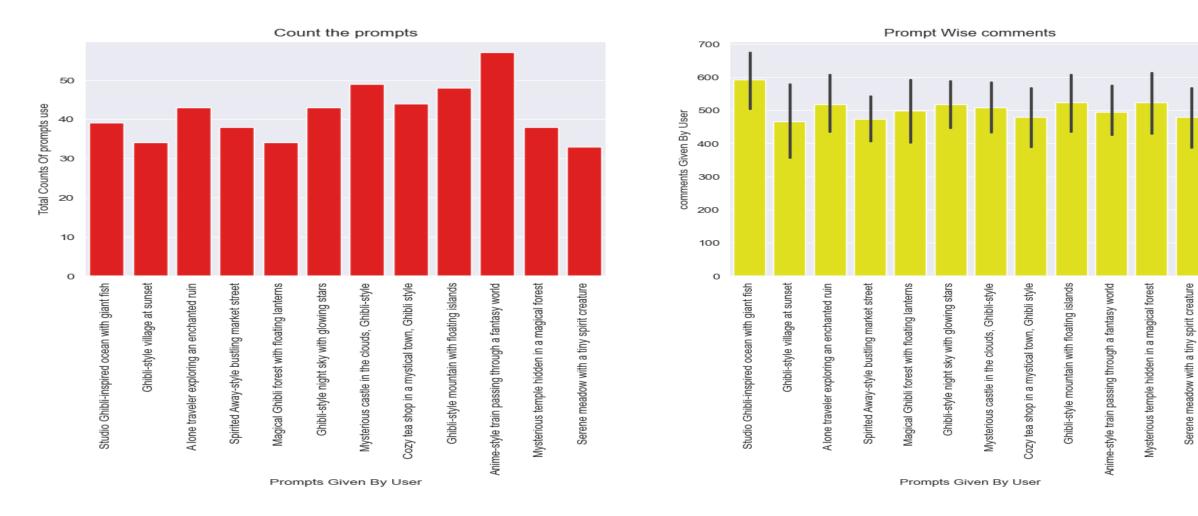


You can see the most using prompt by user is "Anime-Style train passing through a fantasy world"

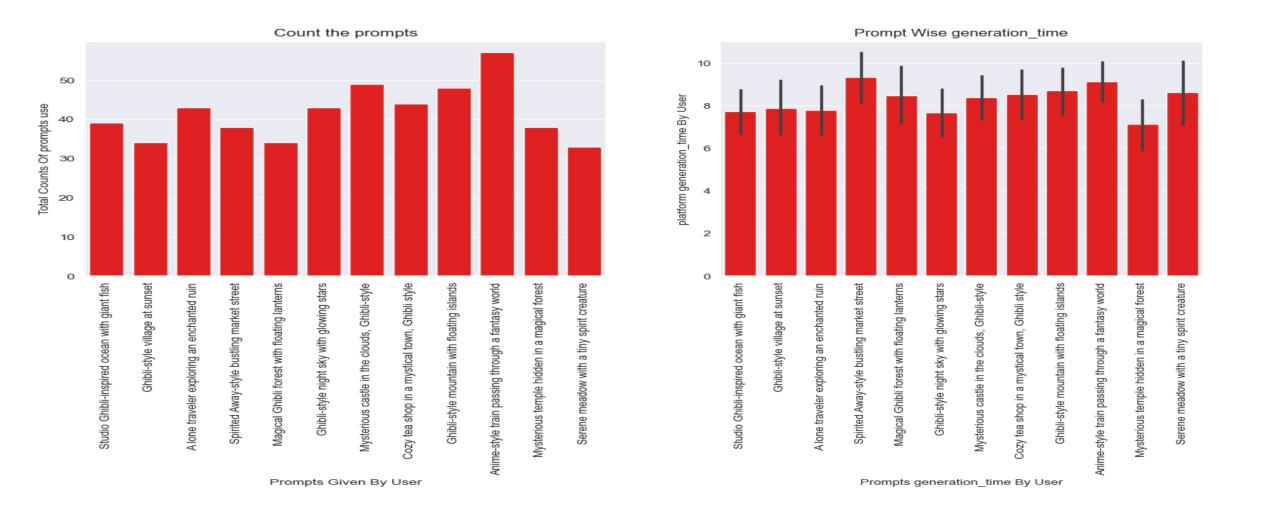
In Above Bar-Chart you can see clearly the "Studio Ghibli-Inspired Ocean With giant fish" Prompt get the highest likes.



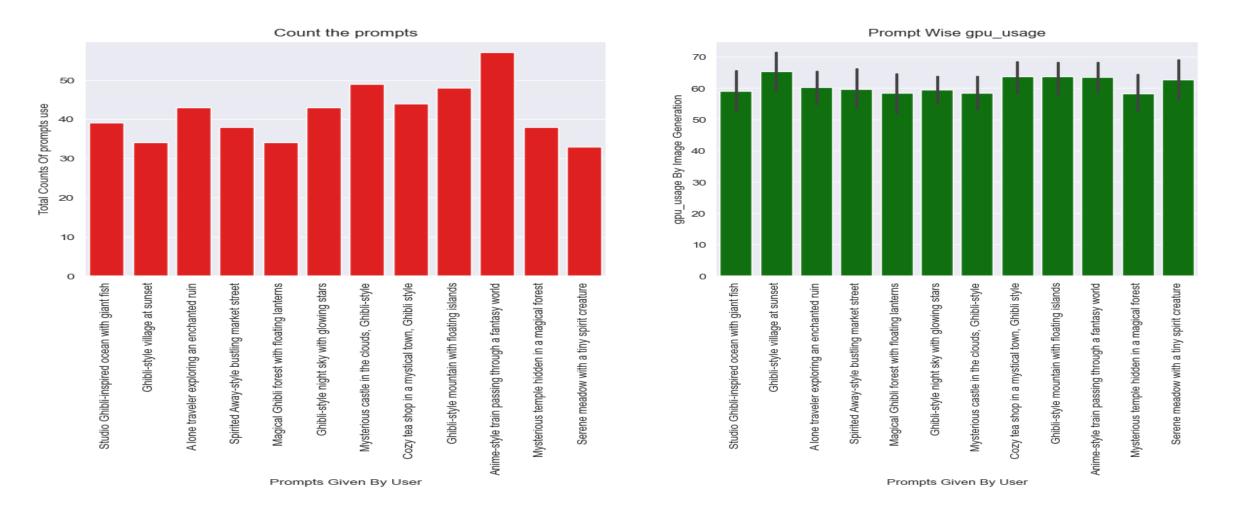
Totally Opposite Thing is "Serene medow with a tiny spirit creature" Prompt Generated Image is highes shares On social-Media.



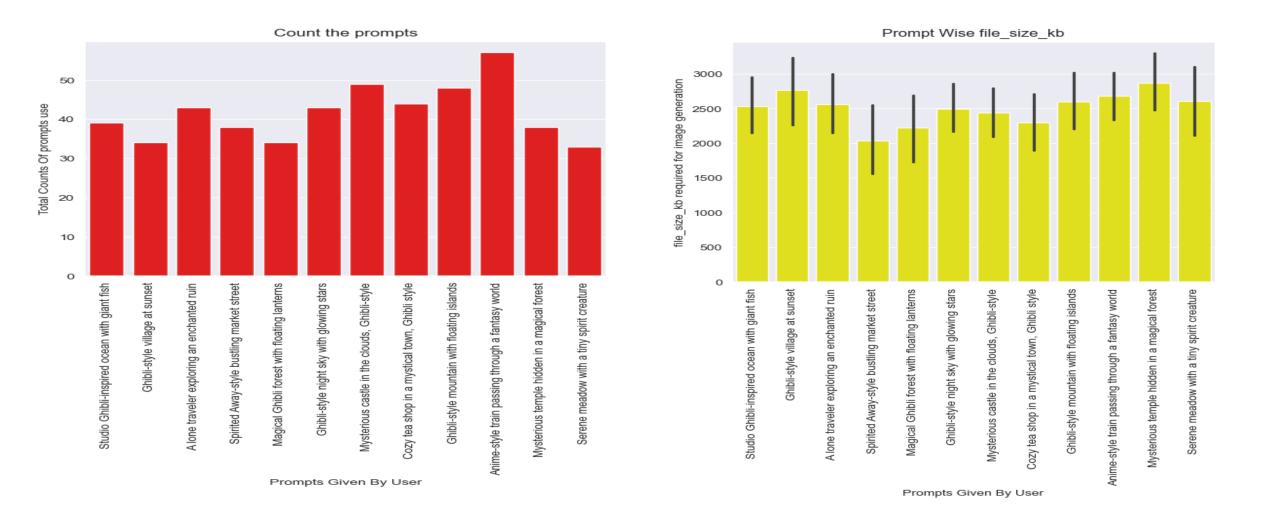
In Above Bar-Chart you can see clearly the "Studio Ghibli-Inspired Ocean With giant fish" Prompt get the highest Comments.



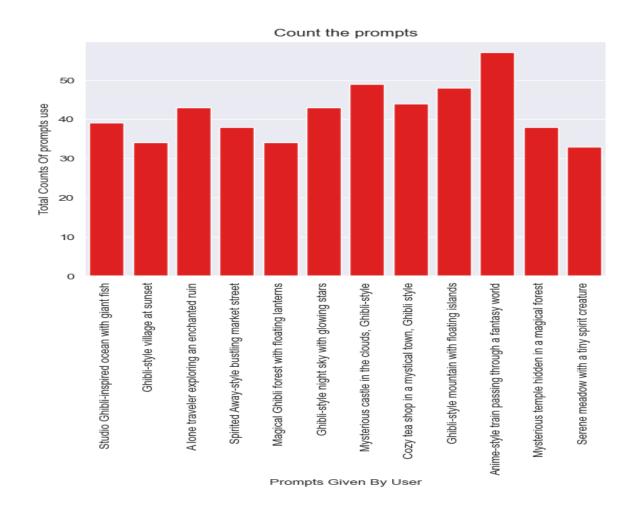
You can see clearly "Sprinted Away Style bustiing market street" prompt takes higher image generation time among the all the prompts.

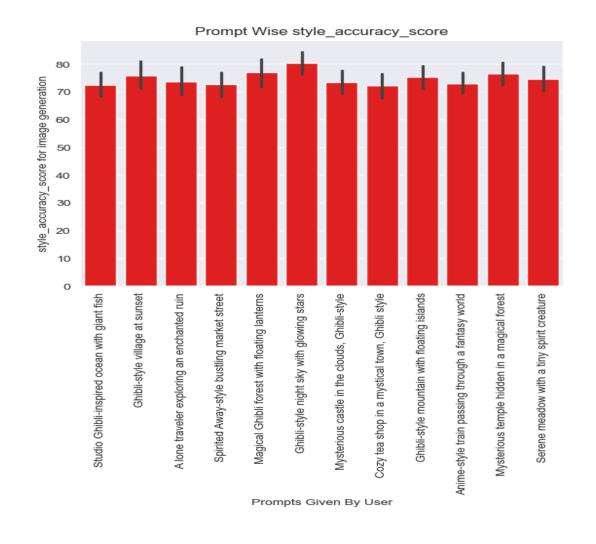


Here the interesting thing is prompt "Ghibli-style village at sunset" take the higher gpu time create image.

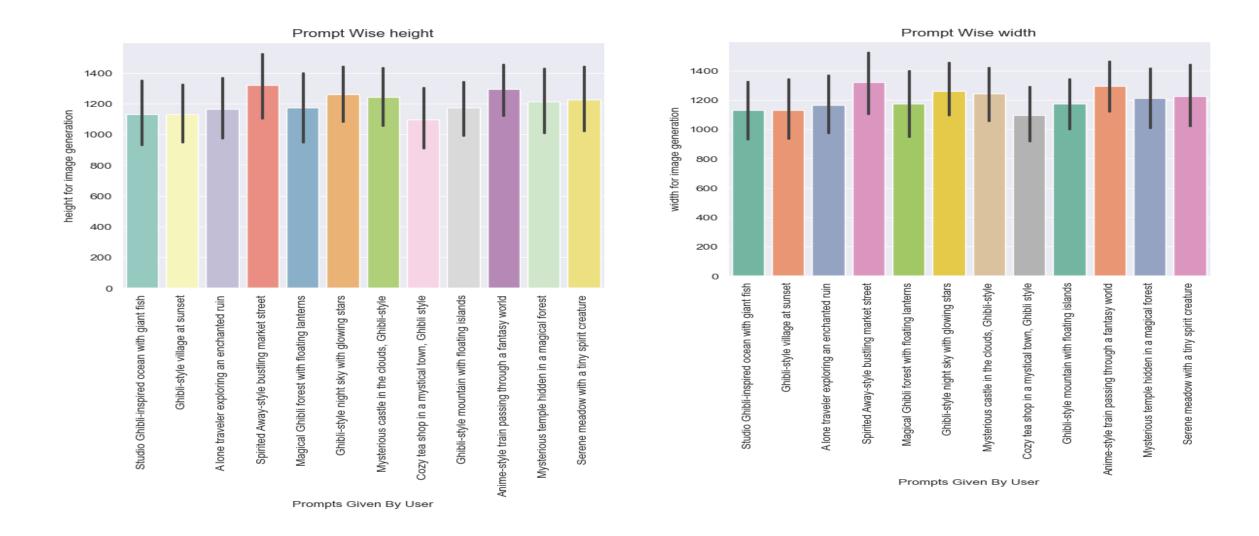


One Another interesting thing is prompt "Mysterious temple hidden in a magical forest" required high spaces to create that type of images.

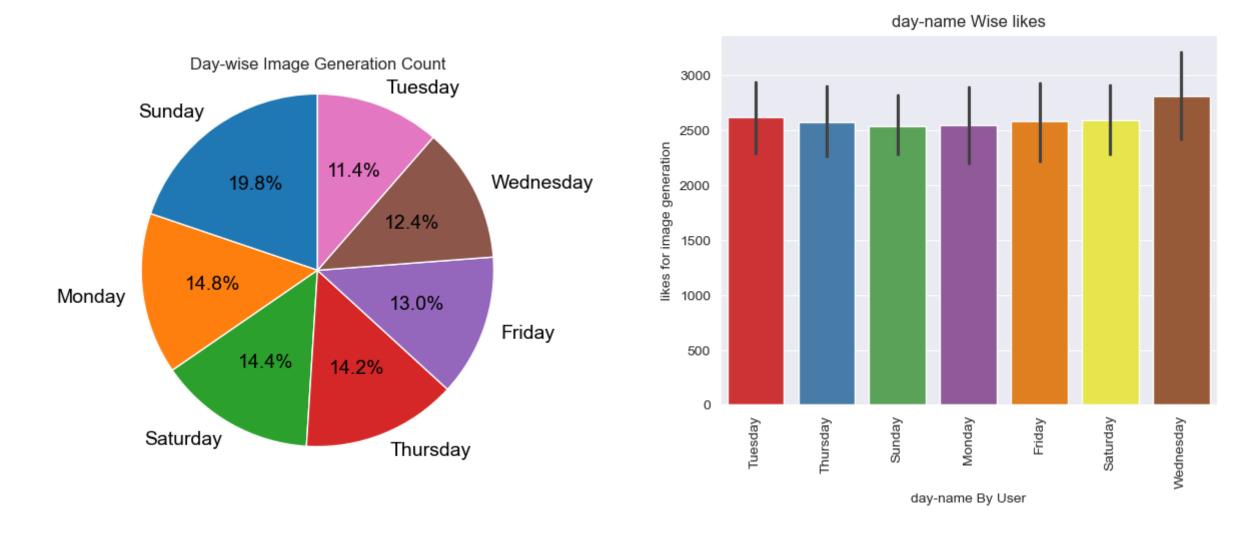




You can see clearly the prompt "Ghibli-style night sky with glowing stars" generates the images with high accuracy score.

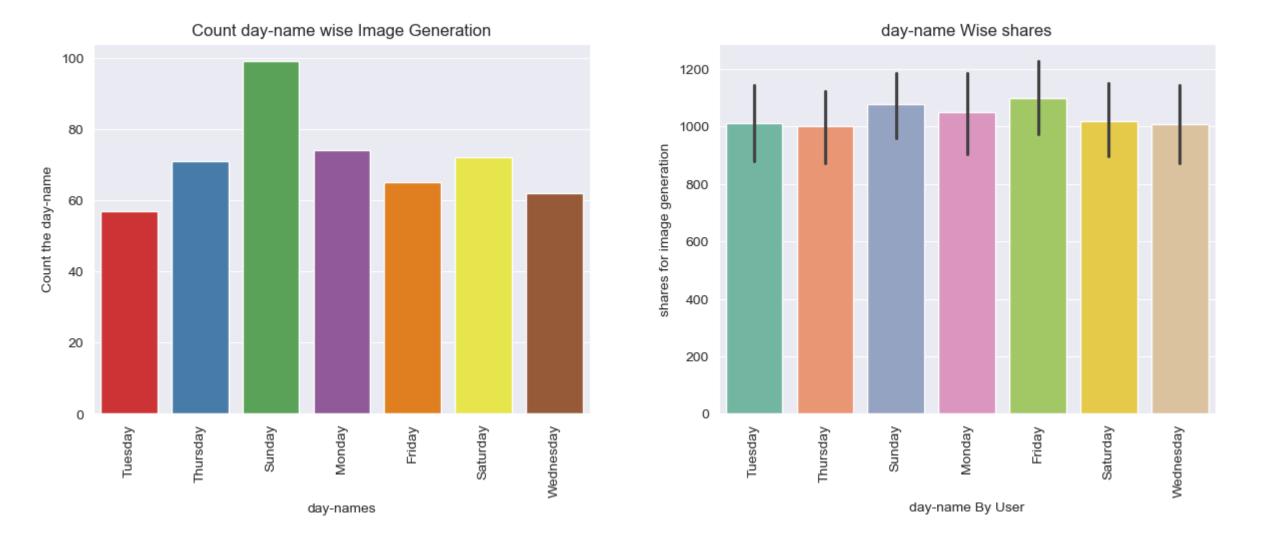


You can see Broader & Bigger images generated in the prompt of "Sprinted Away Style bustling market street".

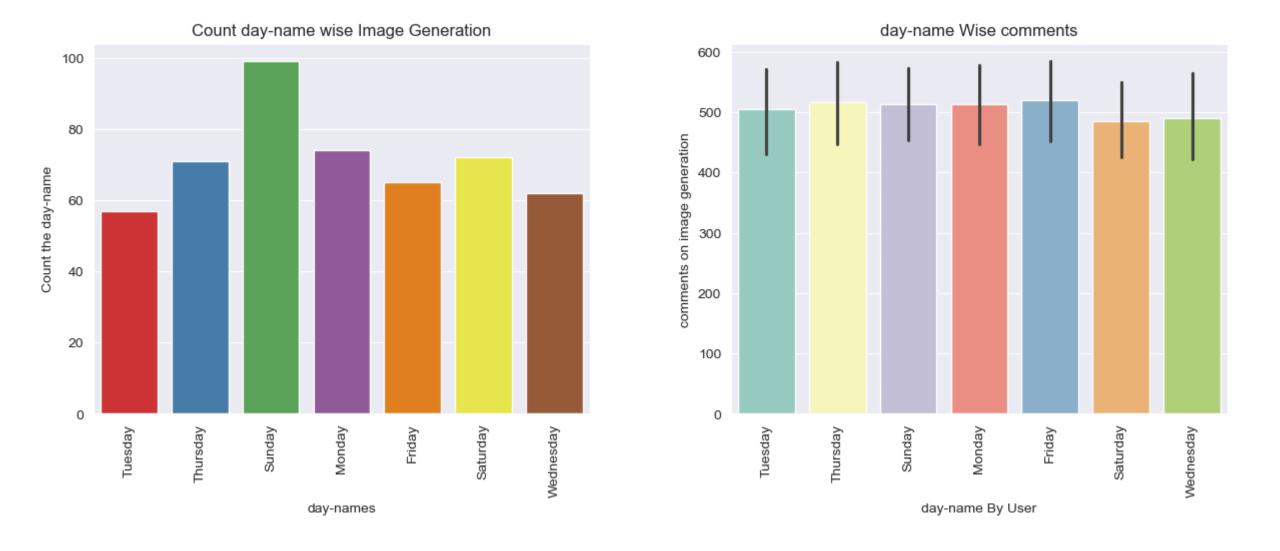


Most of the images are generated on Sunday.

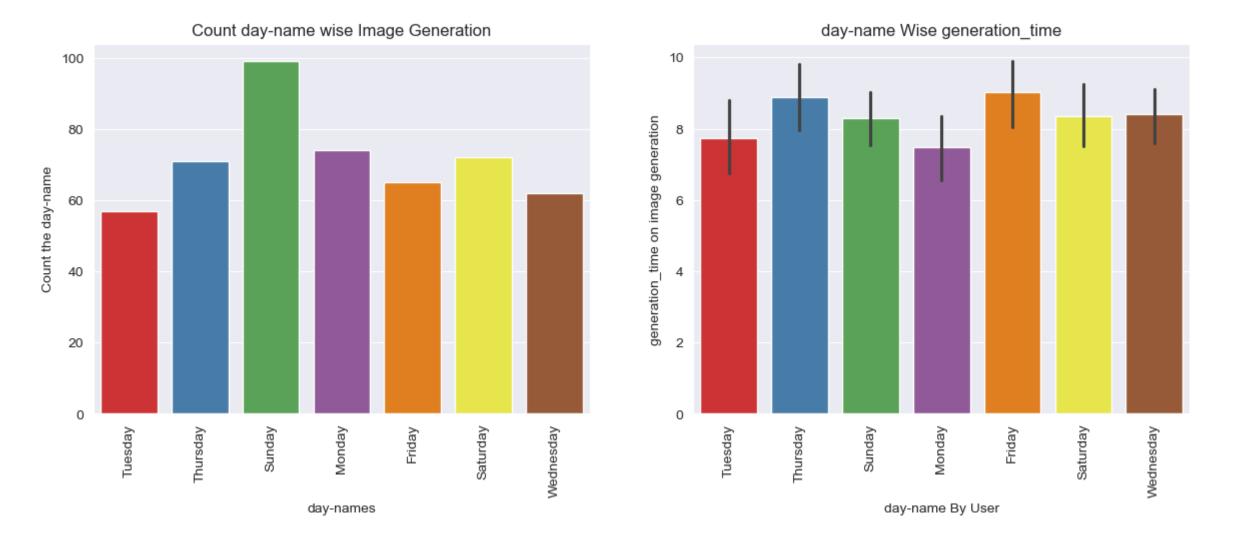
Wednesday posted Ghibli Images getting the highes likes on platforms.



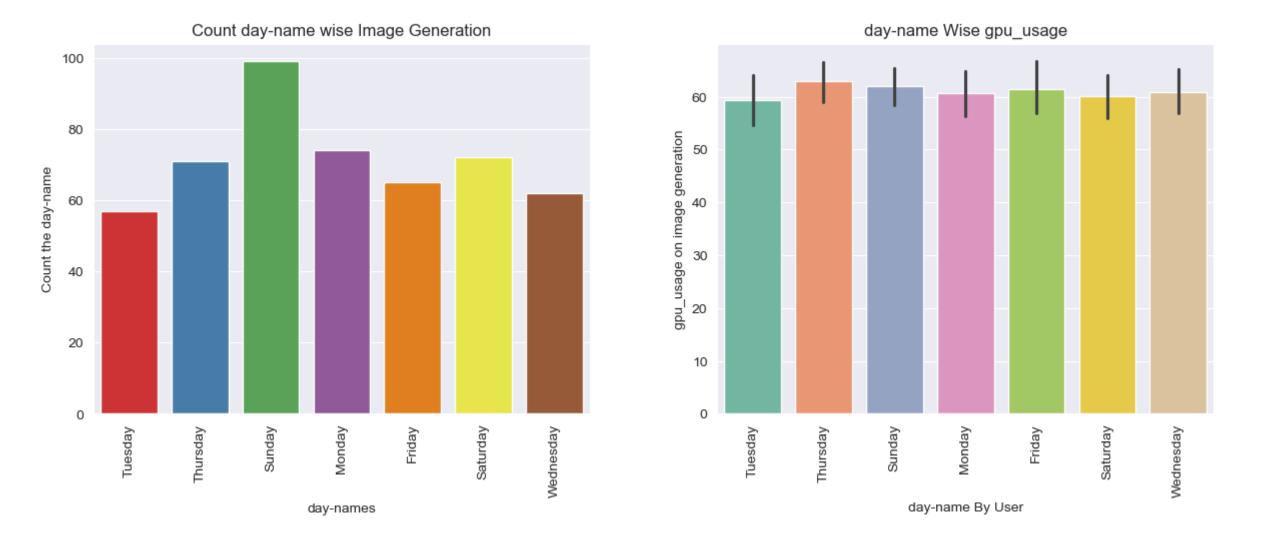
Friday posted images getting the highest shares on platforms.



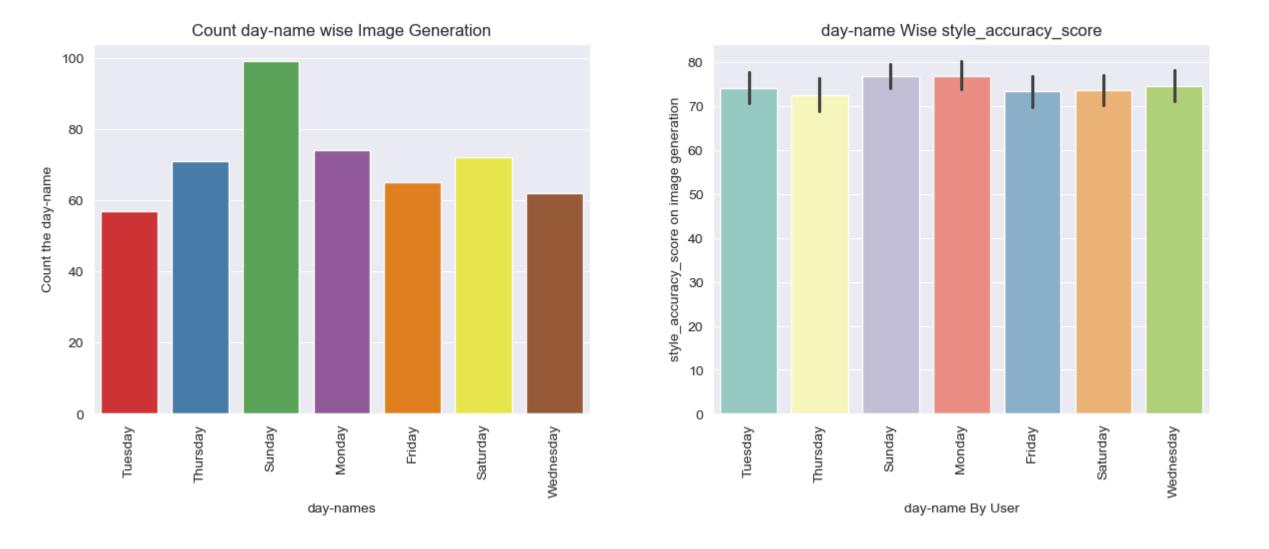
Again the winner is Friday getting the highest comments on posts.



Obeviously Friday taking the highest image generation time cause all the images are posted on Friday.

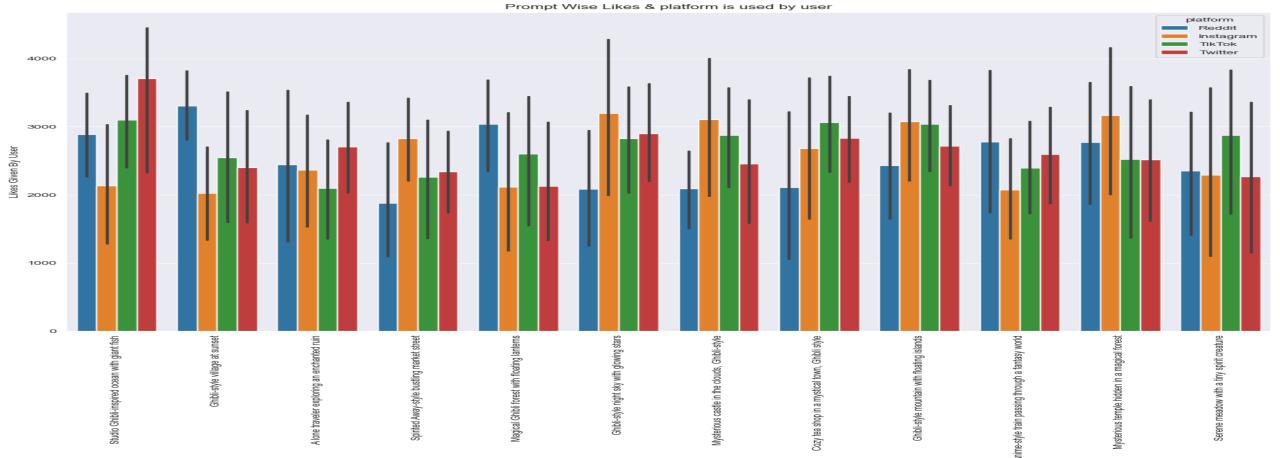


Interesting thing is Gpu usage is high in the day of Thursay.



Another interesting thing is Sunday & Monday Images Accuracy score is high.

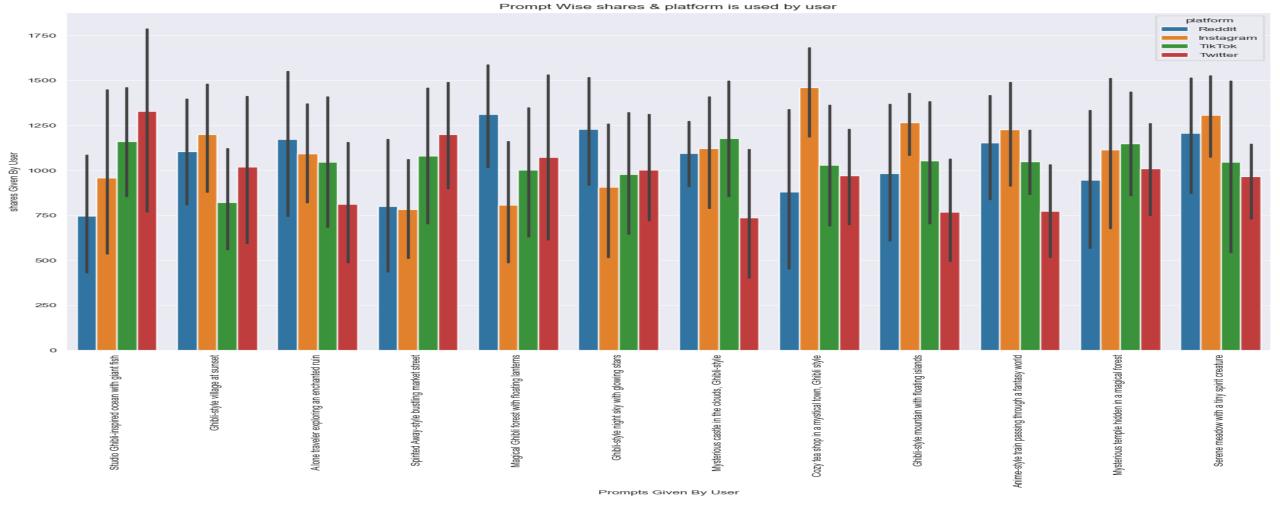
Hue is platform.



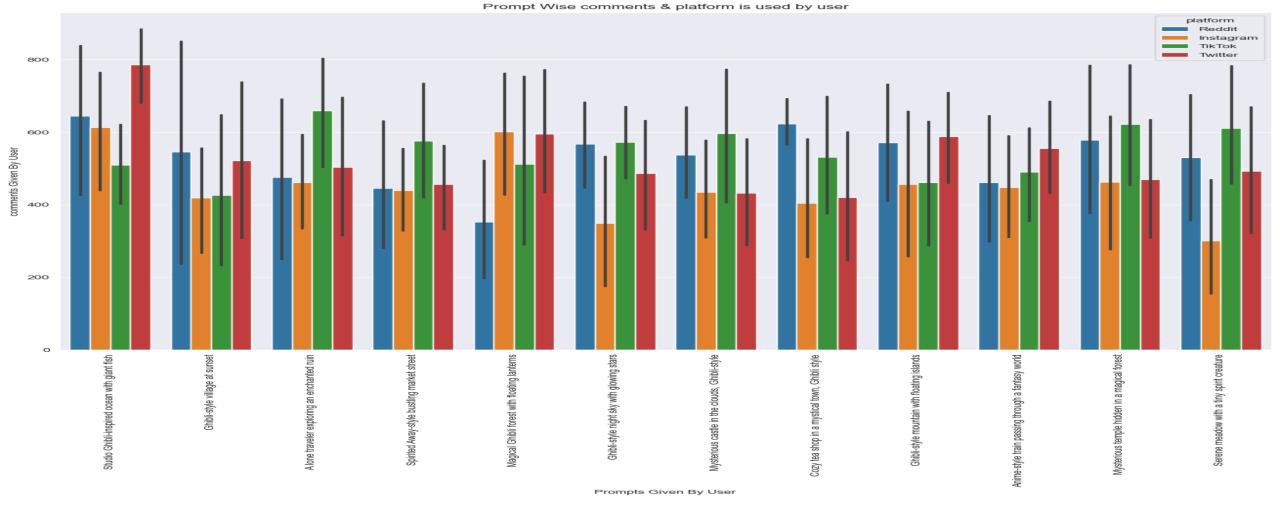
You can see clearly the prompt "Studio Ghibli-Inspired ocaean with gian fish" generated images are posted on the platform of Twitter.

The second prompt "Ghibli Style nigh sky with glowing starts" generated images are posted on the platform of Instagram.

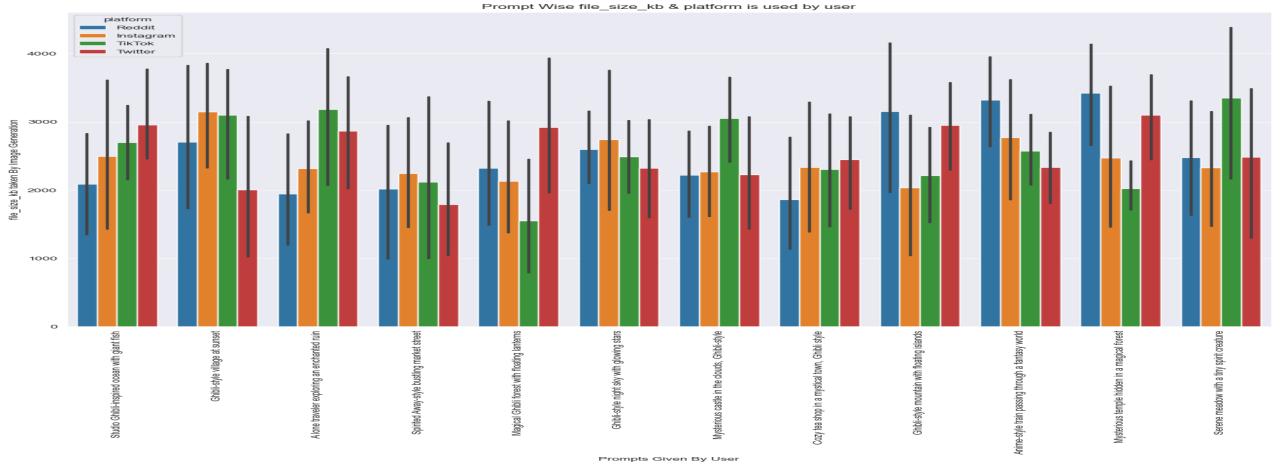
The third prompt "Mysterious castle in the clouds Ghibli-Style" generated images are posted on the platform of Instagram.



Most of the Ghibli Images are share on the platform of Reddit & Instagram but the interesting thing is prompt "Studio Ghibli-Inspired ocaean with gian fish" images are highest shares on the platform of Twitter.

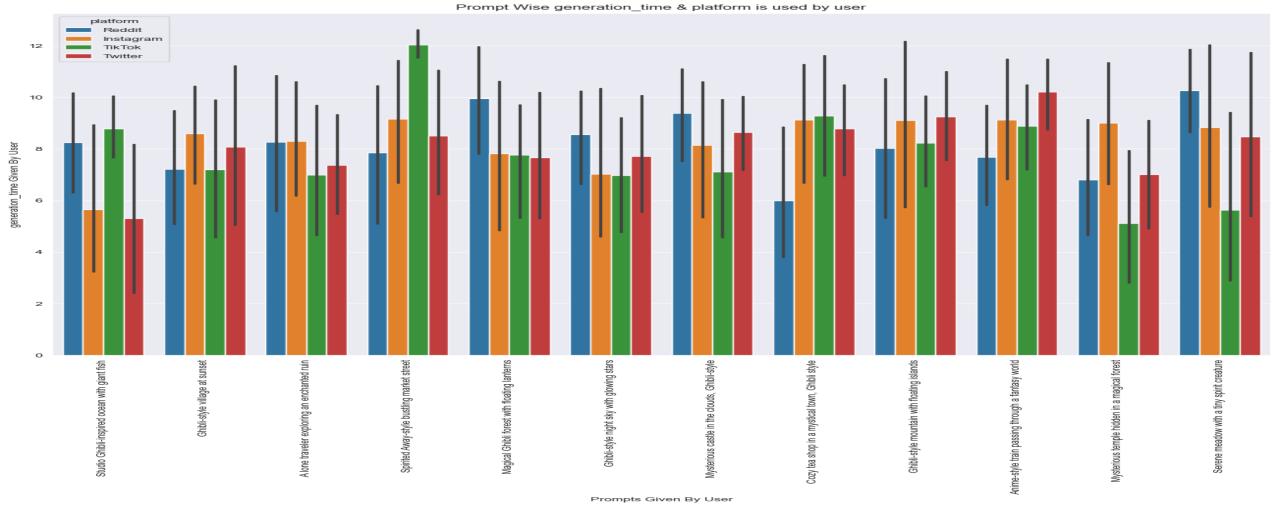


You can see clearly the prompt "Studio Ghibli-Inspired ocaean with gian fish" images are getting highest comments on the platform of Twitter.



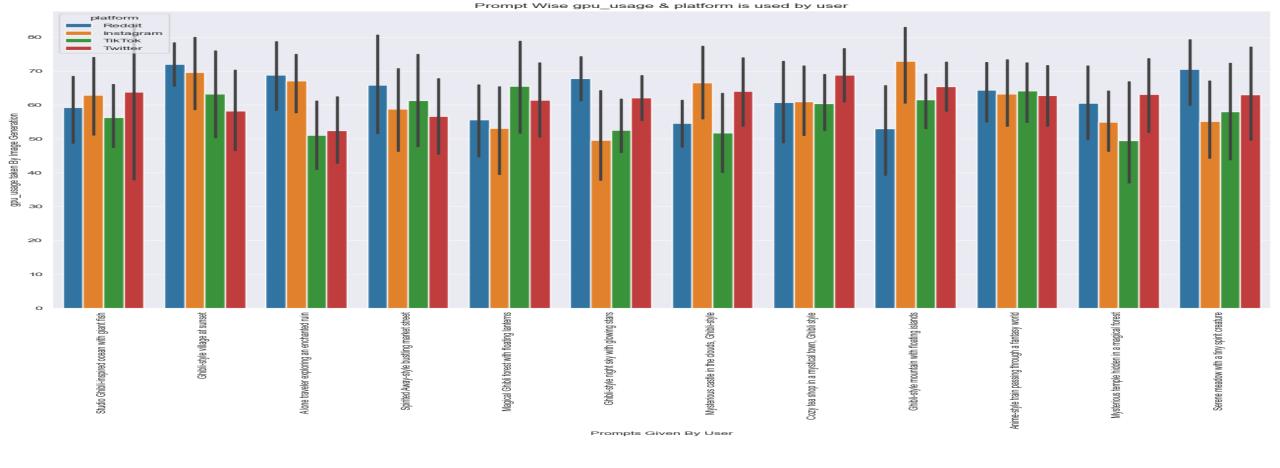
Prompt "Ghibli style mountain with floating islands" & "Mysterious temple hidden in a magical forest" takes the highest sizes of the images and posted on the platform of Reddit.

But the interesting thing is prompt "Serene meadow with a tiny spirit creature" images take the highest sizes and posted on the platform of Tik-Tok.



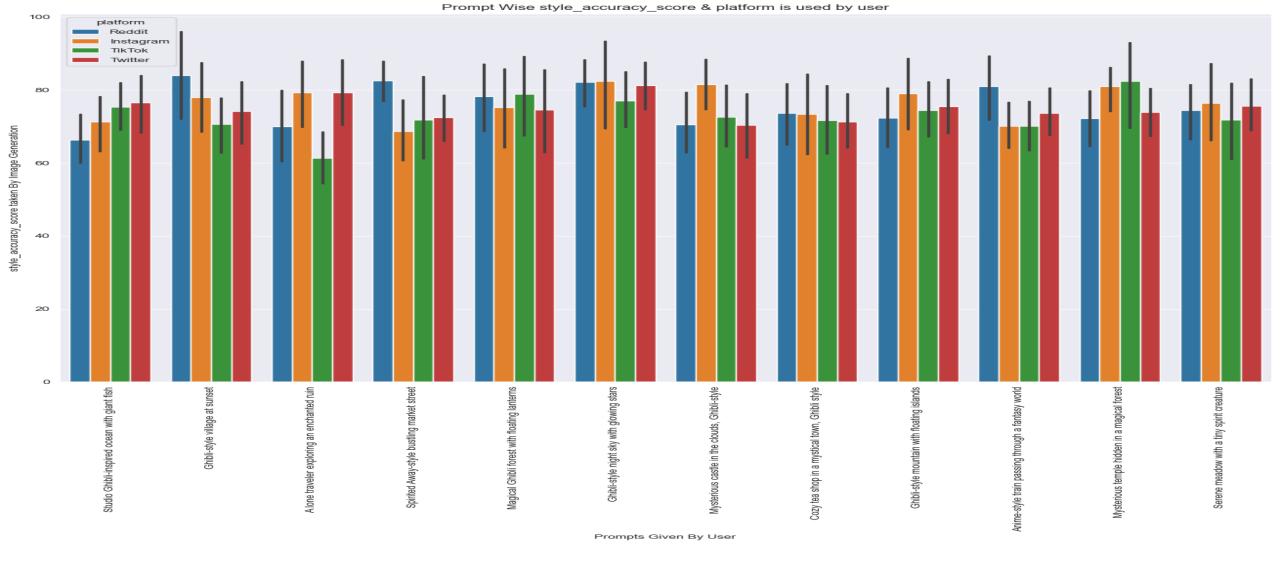
The prompt "Spirited Away style bustling market street" highest generating time taken and posten on the platform of Tik-Tok.

Other Interesting thing is The prompt "Ghibli style mountain with floaring islands" highest generating time taken and posten on the platform of Instagram.



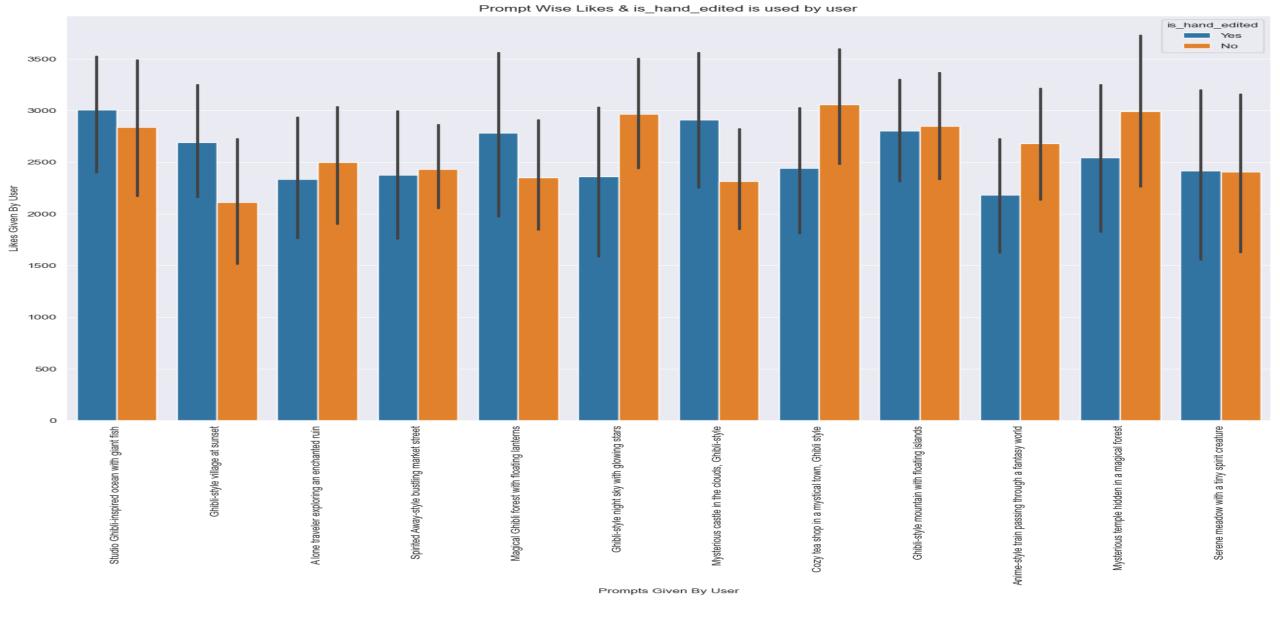
Again the winner is prompt "Studio Ghibli inspired ocean with giant fish" takes the highest gpu time to generate the images and posted on the platform of Twitter.

The second winner is prompt "Ghibli style mountain wiht floating islands" takes the highest gpu time to generate the images and posted on the platform of Instagram.

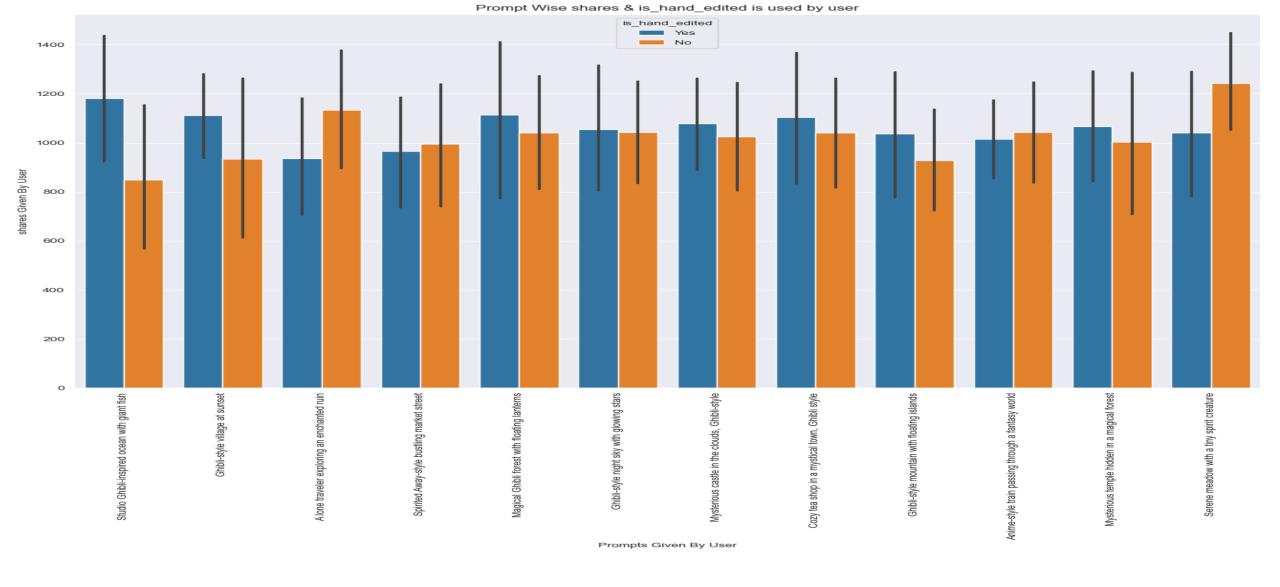


Prompt "Ghibli style village at sunset" getting the highest image accuracy score and images are posted on the platform of Reddit.

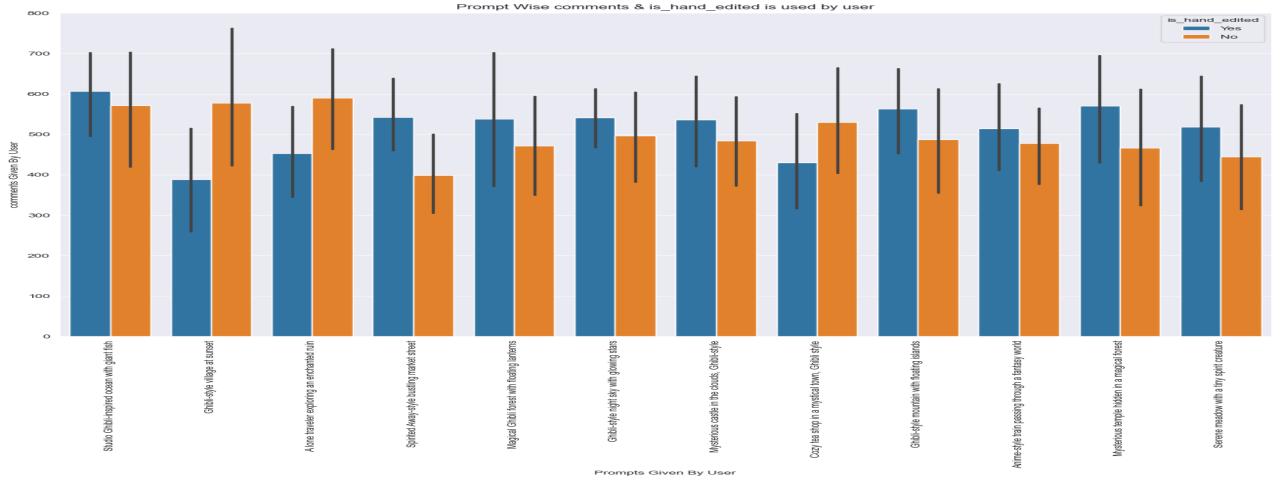
Hue is Is_Hand_Edited.



Most of the images is generated then after the user is ownly edited and those types of images gets the highest likes on their posts.

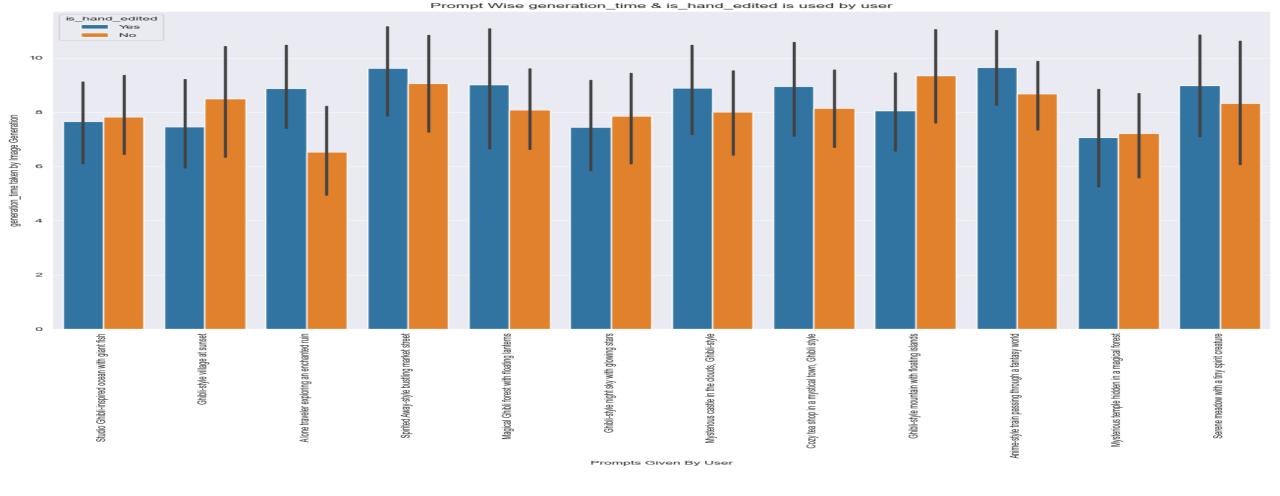


Most of the images is generated then after the user is ownly edited and those types of images gets the highest shares on their posts.



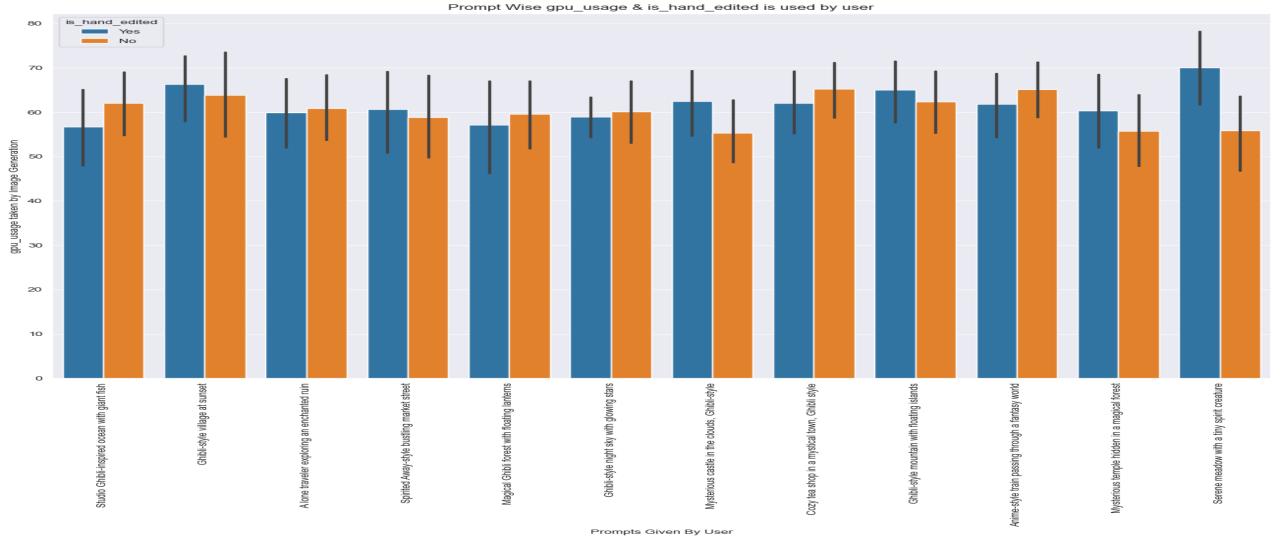
Most of the images is generated then after the user is ownly edited and those types of images gets the highest comments on their posts.

Here again the winner is those user don't edited their images after the generation they getting the highest people comments on their posts.

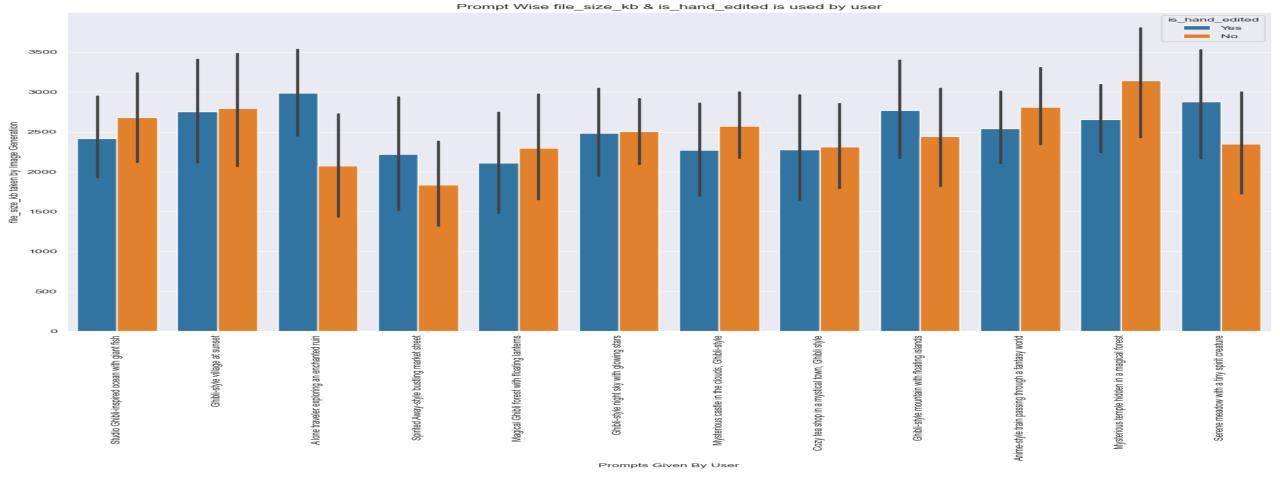


You can see clearly those images takes the higher generation time people also edited after the image generation.

We can say that the image generation time is high but the user favourite image is not generated may be.

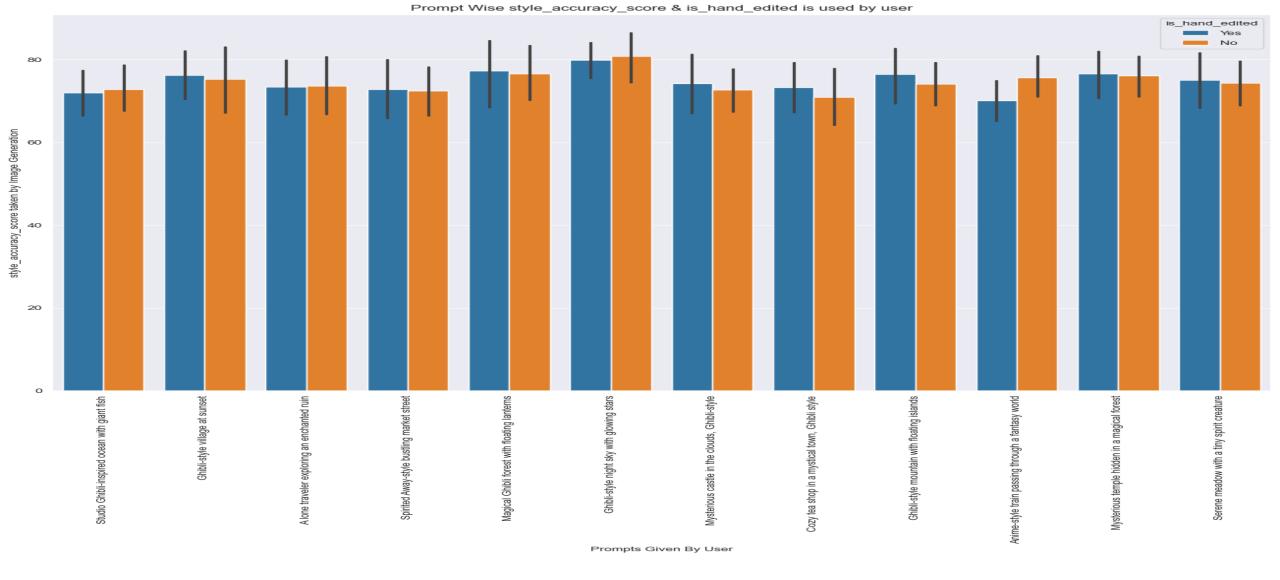


You can see clearly the prompt "Serene meadow with a tiny spirit creature" getting the highest gpu time for image generation and people also want to edit in their images.



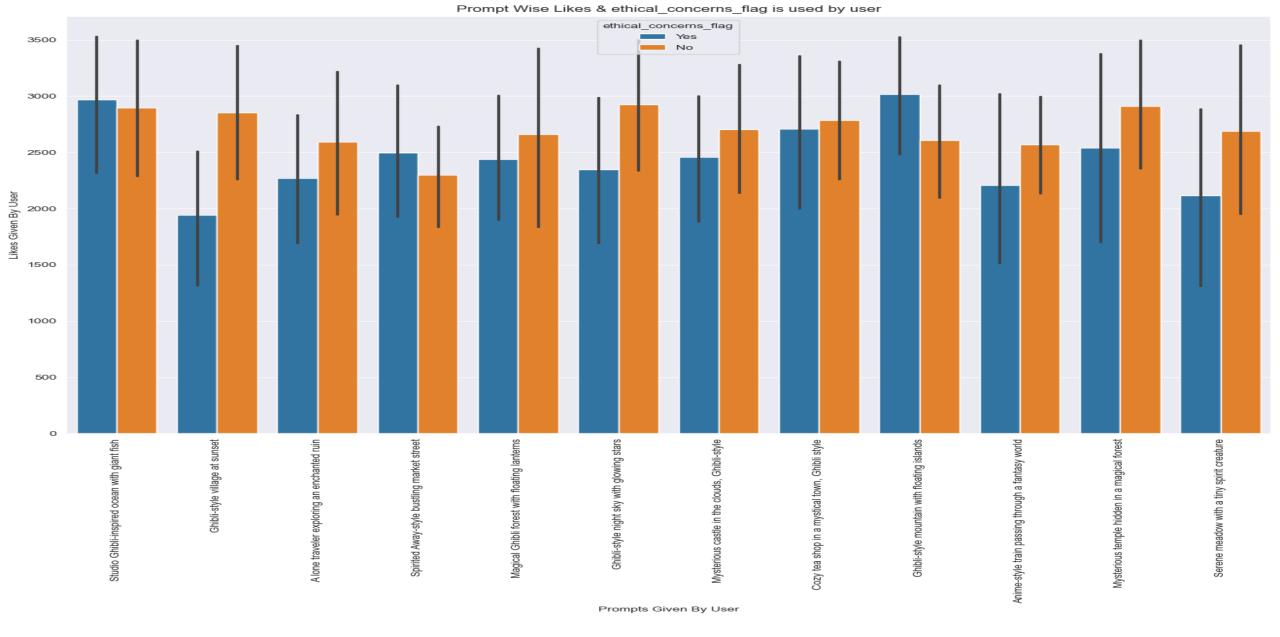
Everything is okay not the major diffrent in all the prompts whether the hand is used and their images sizes are high.

But Interesting thing with the prompt "Mysterious temple hidden in a magical forest" images required higher spaces and there is no user edited images.

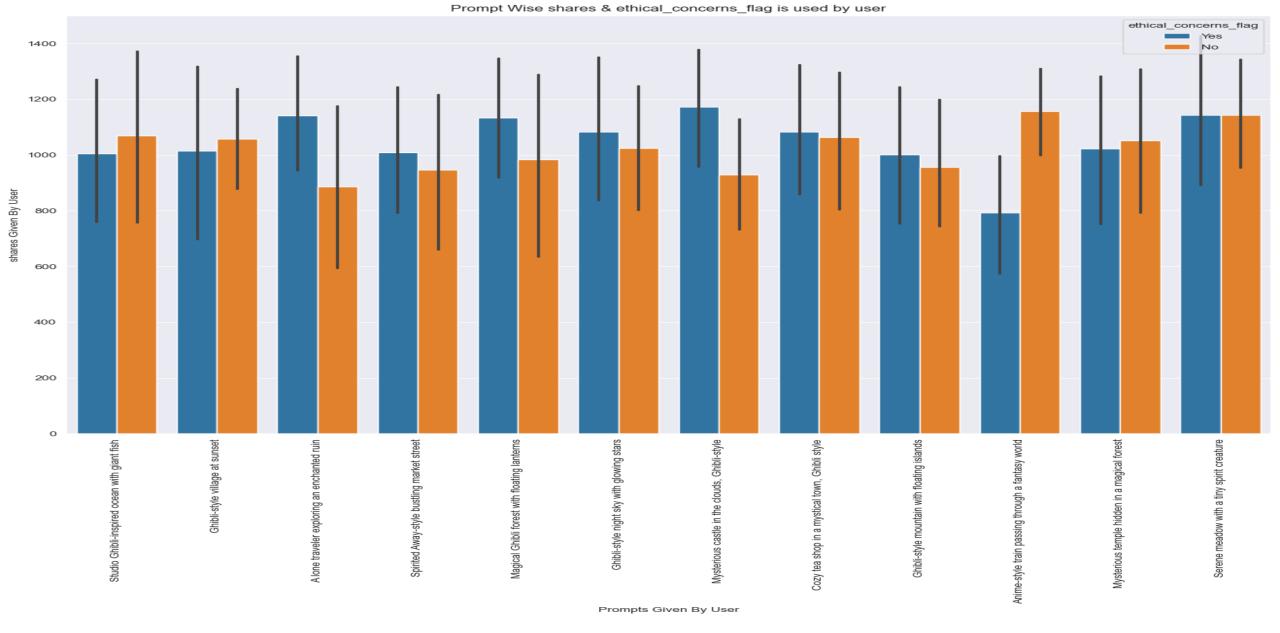


There no major difference in all the prompts but the interesting thing is prompt "Ghibli style night sky with glowing stars" getting the highest image accuracy score and people don't want to edit.

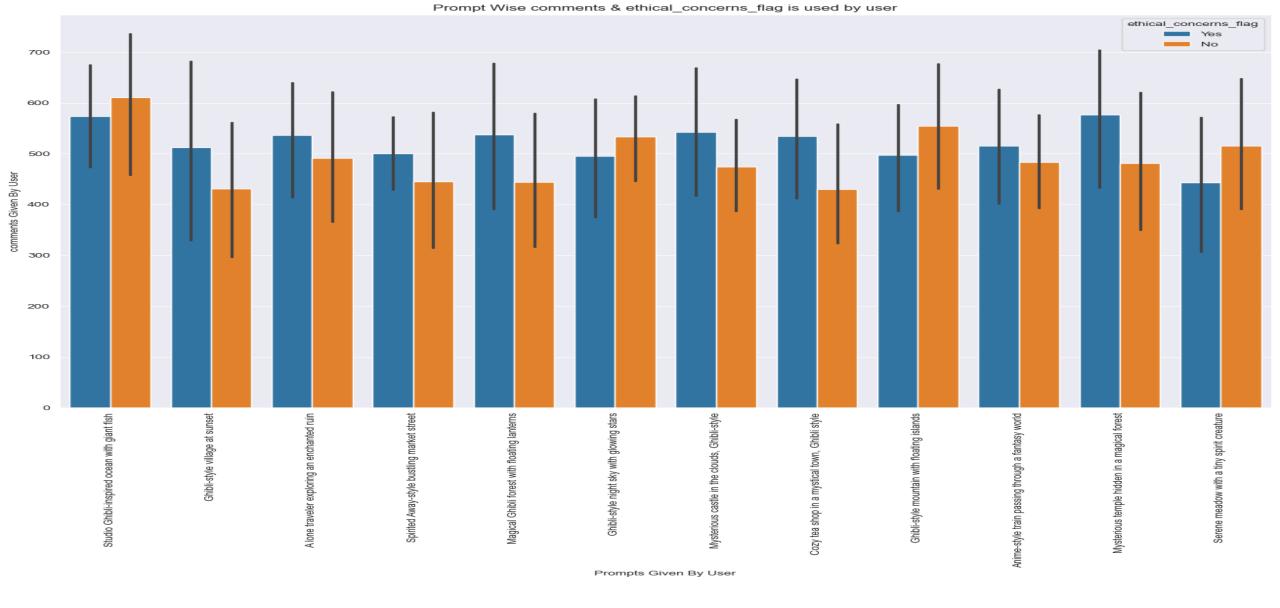
Hue is Ethical Concern Flag.



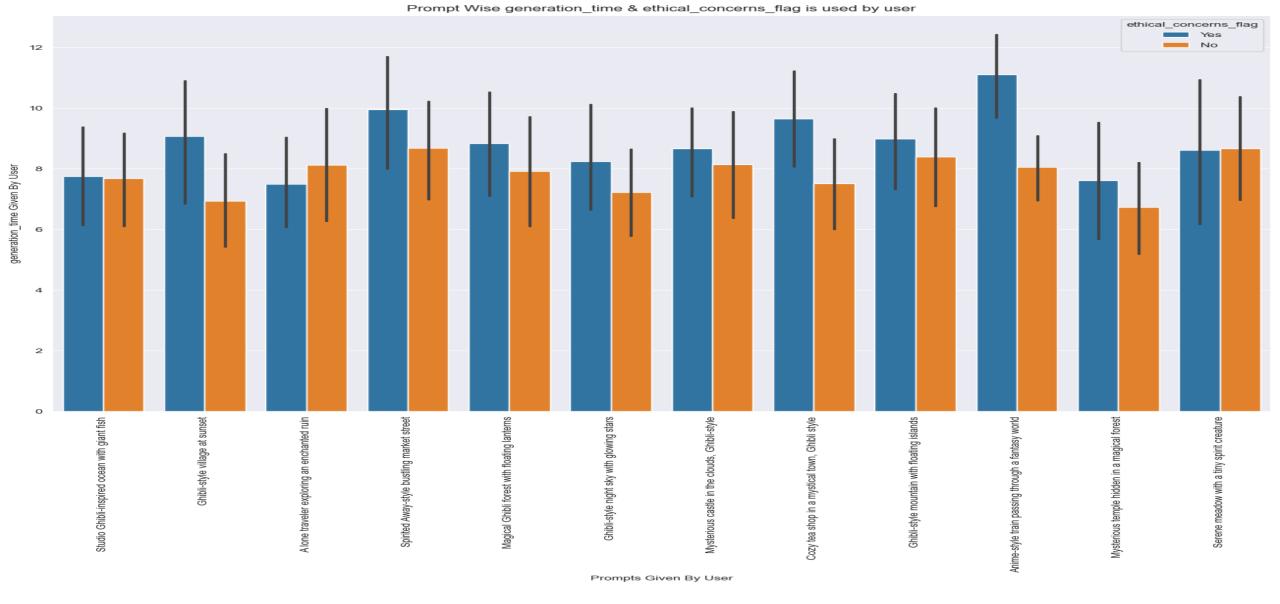
You can see clearly those images users has no ethical concern flags getting the highest likes.



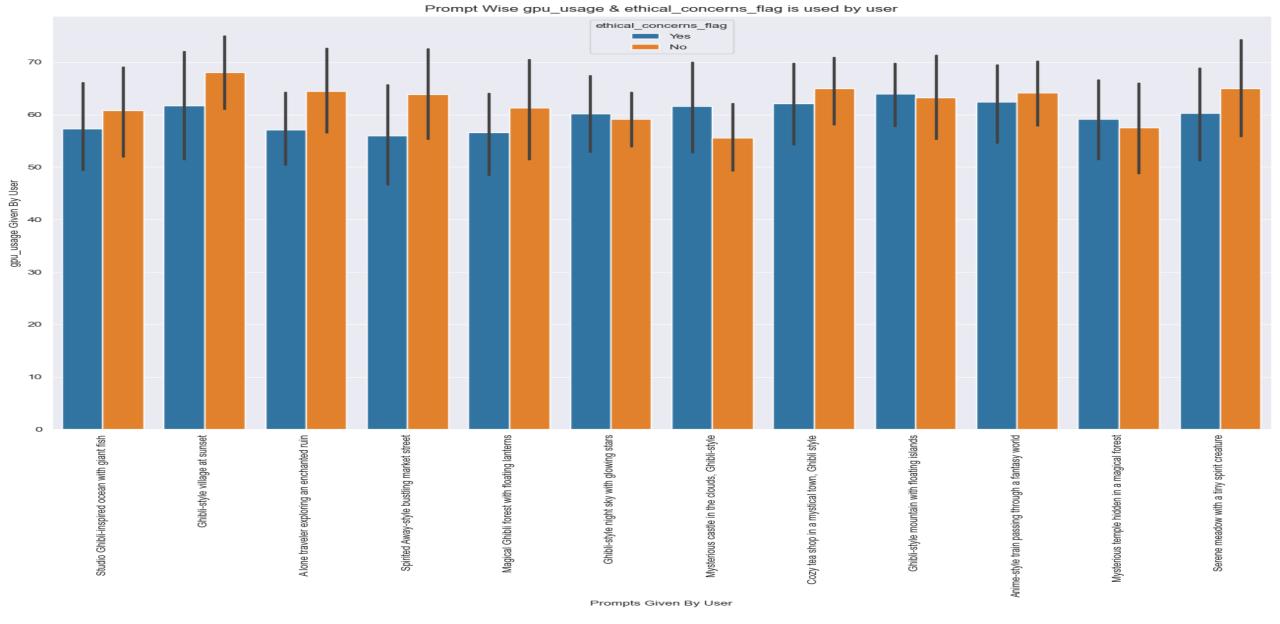
You can see clearly those images are fall in ethical concern flag category cause highest sharing.



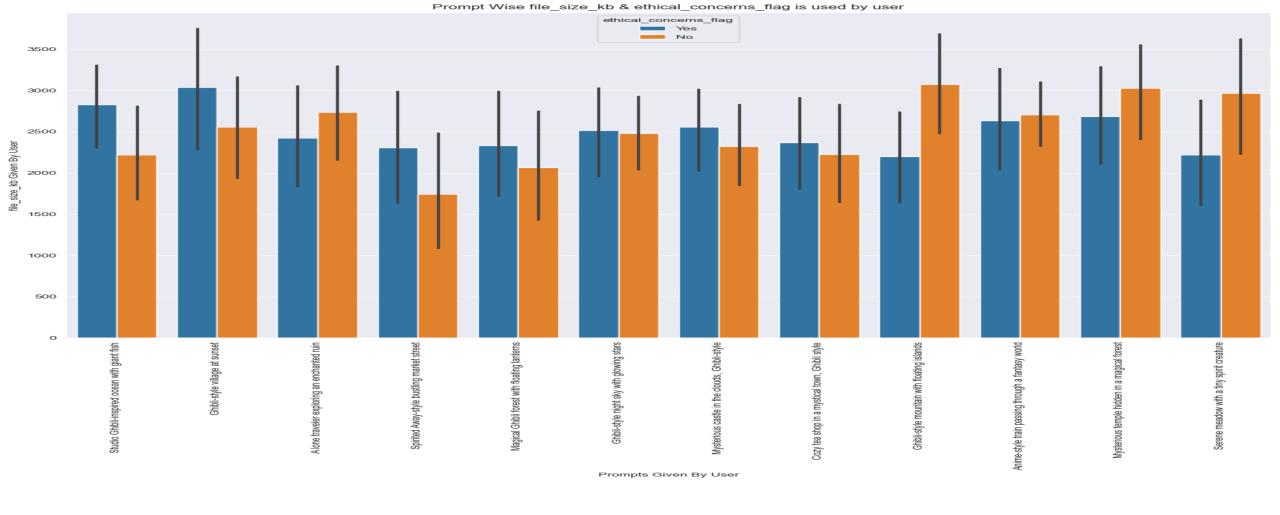
You can see Prompt "Studio Ghibli Inspired ocean with giant fish" images getting highest comments and interesting thing is there is no ethical concern flag.



You can see clearly the prompt "Anime style passing through a fantasy world" images are taking highest image generation time and that majority of all images are fall in ethical concern yes category.



Prompt "Ghibli style village at sunset" taking the highest gpu time & fall in no ethical concern category among the all prompts.



Majority of the all the images above 2500 kbs but the few are 3500 kbs variations and interesting thing is that prompt, "Ghibli style village at sunset" is yes ehical concern.

In the opposite side prompt "Ghibli style mountain with floating islands" take the highest size & no generate the images with no ethical concern.

Prompt Wise style_accuracy_score & ethical_concerns_flag is used by user

The winner is prompt "Ghibli style nighe sky with glowing stars" getting the highest accuracy score and there is no diffrence between ethical concerns but slightly no ethical concerns images are higher.

Insights from Ghibli-Style Image Trends Dataset EDA Project:-

- 1.Most frequent prompt is Anime-Style train passing through a fantasy world with 2048×2048 resolution, high GPU usage, very slow generation time, medium file size, excellent accuracy, no ethical concern, and mostly generated on March 3rd, 31st, and Sundays.
- 2.Twitter is the top platform with highest likes, comments, and shares especially for Studio Ghibli-Inspired Ocean with giant fish which also shows high GPU time and image accuracy.
- 3.Instagram hosts popular prompts like Ghibli-style night sky with glowing stars, Mysterious castle in the clouds, and Mysterious temple hidden in a magical forest with large file sizes and high accuracy.
- 4.Reddit features Ghibli-style content with high accuracy and larger image sizes, especially Ghibli-style village at sunset which also shows high GPU time.
- 5.TikTok hosts heavy prompts like Spirited Away style bustling market street and Serene meadow with a tiny spirit creature with highest image dimensions, large sizes, and longer generation times.

Insights from Ghibli-Style Image Trends Dataset EDA Project:-

- 6.Most images were created in March 2025 with peak activity on Wednesdays, Fridays, Sundays, and Mondays based on likes, shares, comments, generation time, and accuracy.
- 7. Hand-edited images tend to get more likes and comments, especially when GPU time and generation time are high, while non-edited images receive higher shares.
- 8. Prompts with no ethical concern flags consistently receive higher likes, comments, and accuracy, but interestingly, flagged prompts tend to get more shares and longer generation times.
- 9.Ghibli-style mountain with floating islands is notable for high GPU usage, large file size, and high generation time with no ethical concerns or editing.
- 10.Across platforms, Studio Ghibli themed prompts dominate trends with high engagement, performance scores, and aesthetic preference.
- 11. 'Ghibli-style', 'Mysterious', 'with' is the most common words while prompting.
- 12. Most common word in the top comments is 'Ghibli'.

Thank You