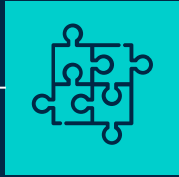


# Instagram Web Scraper: Analyzing Make Up Content Creators

Data Science Project  
By: Intisar L. Muhammad

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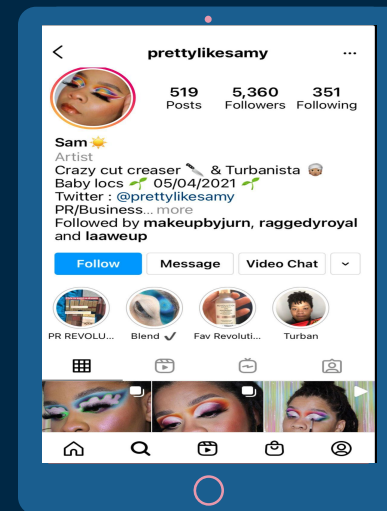
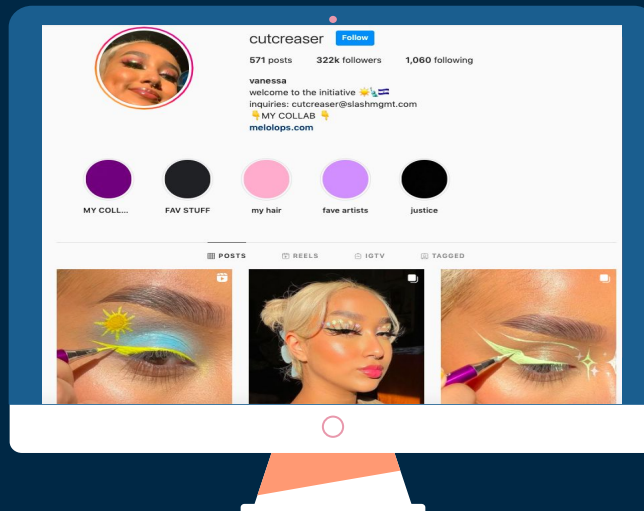
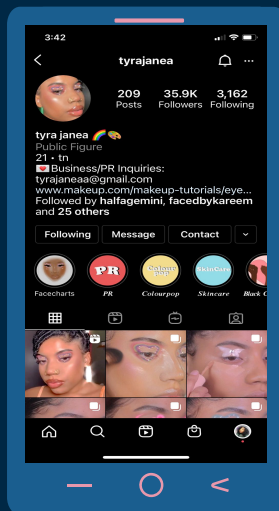


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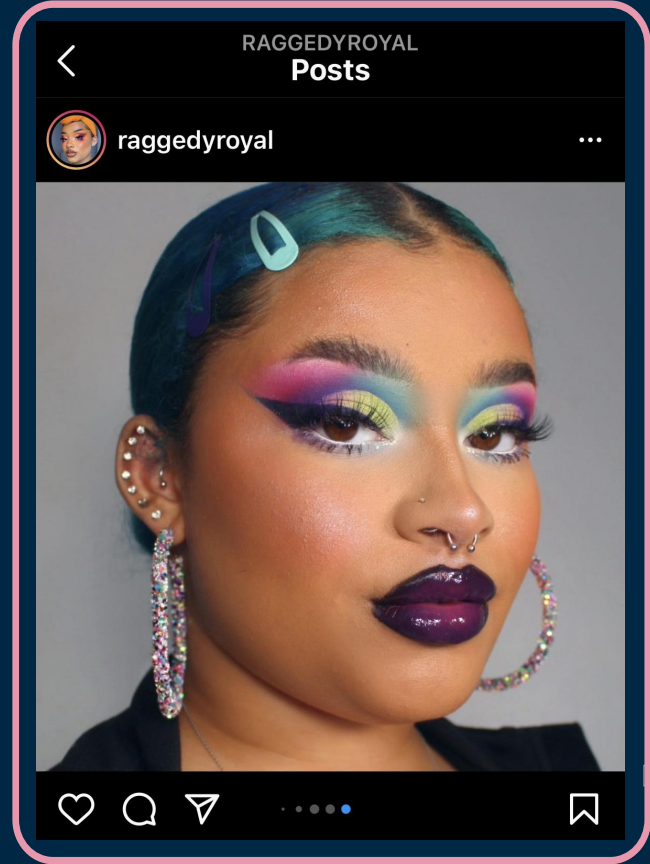
Important findings

# 1. Introduction



# Motivation

- ❖ In the makeup industry, content creators and influencers have figured out how to succeed on Instagram and beat the algorithm so that their posts reach a high audience
- ❖ I wanted to investigate how to get the best engagement on Instagram as a makeup influencer



# Research Question

**What are the posting patterns of Instagram makeup creators that help them beat the algorithm?**



## 2. Data



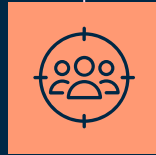
# Data Collection Methods

I built an API that allowed me to gather information from Instagram posts



Passed the list through the API

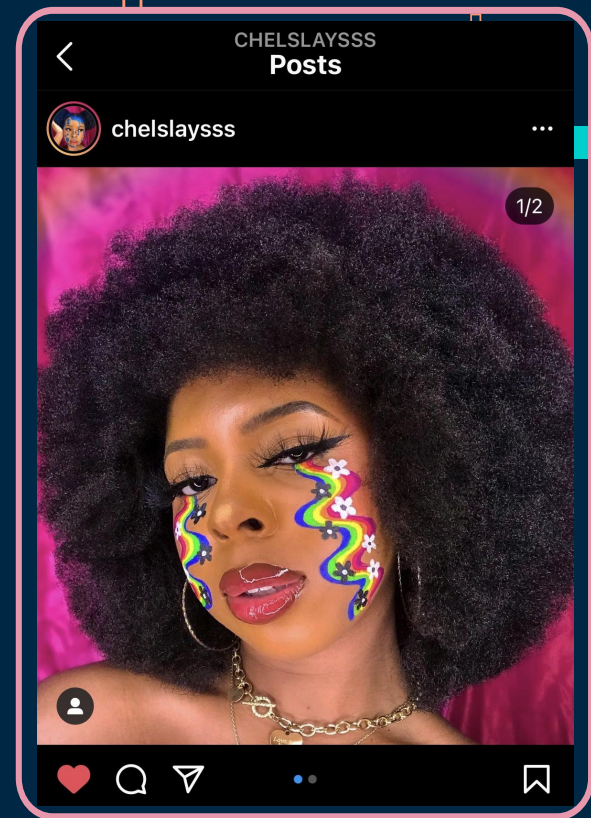
Manually picked 100 instagram accounts and put them in a list



Put the collected data into a dataframe using Pandas

# Data Cleaning and Manipulation

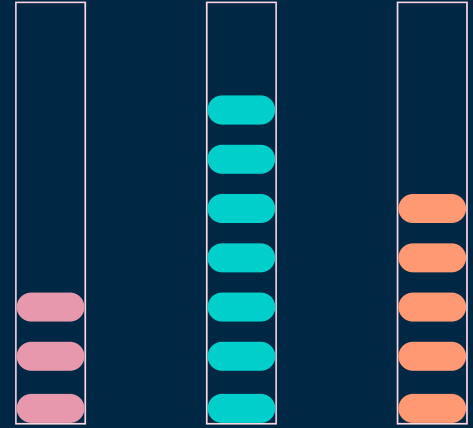
- ❖ Extracted all of the hashtags from the caption by using a regular expression and put them into a new column named 'hashtags'
- ❖ Created a new column named 'hours' which took the time of day the picture was posted and converted it into military hours for analysis
- ❖ Created a new variable, 'time\_of\_day' which grouped the posts together by the time of day they were posted: morning, afternoon, evening, late night





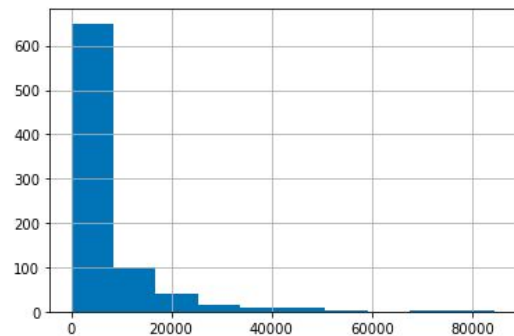
# ANALYSIS

- ❖ After collecting data, I was able to analyze the columns to find important information
- ❖ The columns I chose to focus on in particular were likes, hours, and time\_of\_day
- ❖ I also created a Word Cloud that displays the most used hashtags out of all of the posts



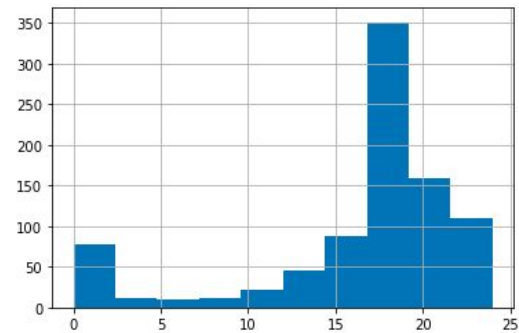
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insta_scraps['likes'].hist()
```

<AxesSubplot:>



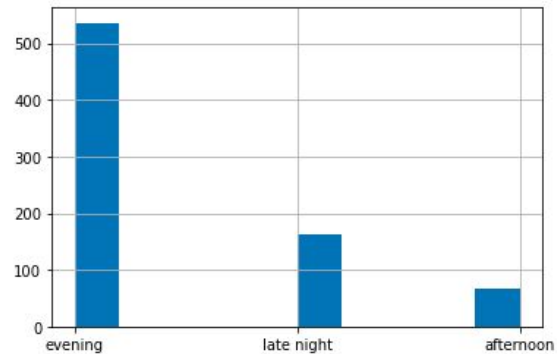
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insta_scraps['hours'].hist()
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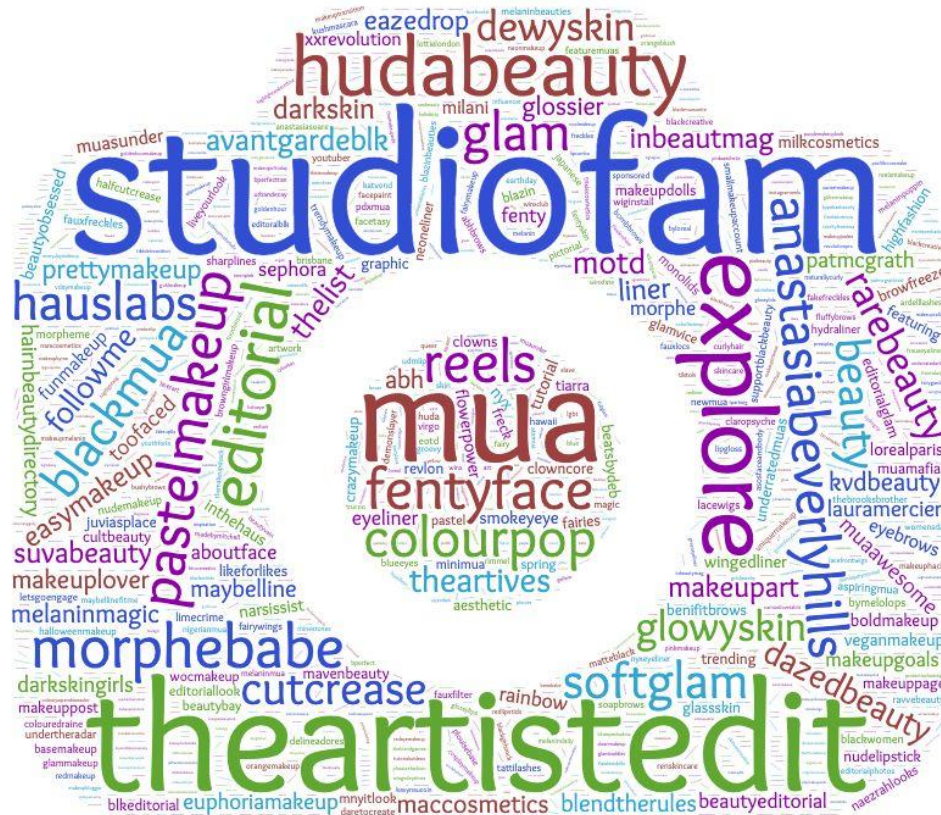
<AxesSubplot:>



```
insta_scraps['time_of_day'].hist()
```

<AxesSubplot:>





### 3. Results



# Findings

- ❖ Most makeup content creators post their pictures during the evening and the average of the hours column showed that the time is usually a little after 4 p.m.
- ❖ The amount of likes for each post is mostly under 10,000 with the bigger creators' most viral posts getting between 50,000-80,000 likes
- ❖ Some of the most used hashtags were 'mua', 'studiofam', 'theartistedit', 'explore', and 'hudabeauty'



# Implications

- ❖ The posting pattern of Instagram makeup content creators that help them beat the algorithm seem to be posting in the evening between 4-9 p.m., using popular hashtags which you can find on other viral creator's posts to get inspiration, and if you're posting in the evening, try to do it closer to 4 p.m
- ❖ Using all of these steps and being consistent, a content creator will hopefully be able to build a following and grow their account to become successful



Do you have any questions?  
Contact me!

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# THANKS



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