WERATEDOGS

A Twitter Account Study Result

ABSTRACT

Throughout this report, and by using visuals, we will review the end result and conclusion for the study of "WeRateDogs" Twitter account data.

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Background

Study Context

- **@dog_rates**, also known as **WeRateDogs** is a **Twitter account** that rates people's dogs with a humorous comment about the dog.

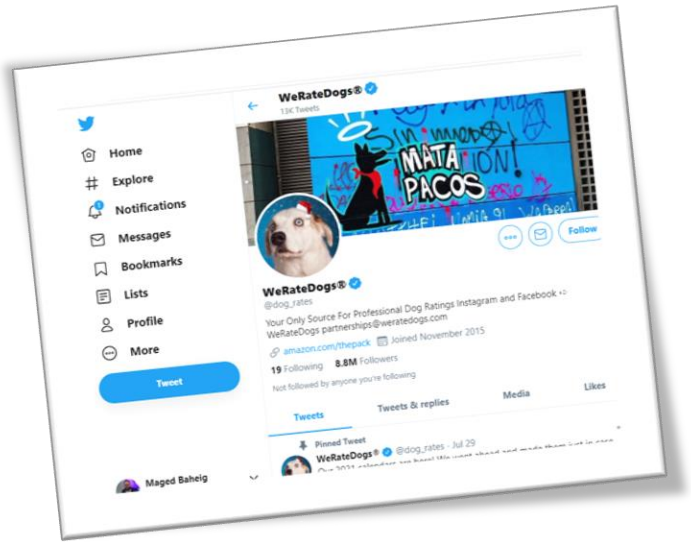

Figure 1: ***WeRateDogs Twitter Account***

- These **ratings** almost always have **a denominator of 10**. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc.

Figure 2: ***WeRateDogs Tweet Example***

- Nowadays, WeRateDogs has **over 8 million followers** and has received international **media coverage**.
- **WeRateDogs profile URL:** https://twitter.com/dog_rates?s=20

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Study Objective

- Wrangling and **analyzing WeRateDogs Twitter account's tweet data** (tweet ID, timestamp, text, etc.) for 5000+ of their tweets as they stood on **August 1, 2017**.
- **We will work on:**
    - **Original ratings only** (no retweets and/o no replies).
    - Tweets that **have images only.**
- Our **goal** is to **create interesting and trustworthy analyses and visualizations**. The Twitter archive is great, but it only contains very basic tweet information.

Datasets

*WE started with using **3 datasets** as "**data input**", **processed** them by **making** required assessing and cleaning actions, finally ended with 2 datasets in hand as "**data output**". Our analysis done using output datasets.*

Output Datasets

Output_File #1**: **twitter_archive_master.csv

twitter_archive_master.csv

```
1 twitter_archive_master.sample()
```

	tweet_id	timestamp	source	text	expanded_urls	name	dog_stage	dog_rating	date	time	hour	favorite_count	retweet_c
824	733828123016450049	2016-05-21 01:13:53+00:00	Twitter for iPhone	This is Terry. The harder you hug him the fart...	https://twitter.com/dog_rates/status/733828123...	Terry	NaN	100.0	2016-05-21	01:13:53	1	3489	

```
1 twitter_archive_master.to_csv('twitter_archive_master.csv', index=False)
```

*Figure 3: **twitter_archive_master.csv***

Output_File #2**: **imagee_prediction.csv

image_prediction.csv

```
1 image_prediction = image_df_clean_melted.copy()
```

```
1 image_prediction.sample()
```

	tweet_id	jpg_url	prediction_number	prediction_result	prediction_confidence	prediction_match_breed	prediction_match_breed
1785	679511351870550016	https://pbs.twimg.com/media/CW4b-GUWYAAa8QO.jpg	p1	Chihuahua	0.761972	True	

```
1 image_prediction.to_csv('image_prediction.csv', index=False)
```

*Figure 4: **imagee_prediction.csv***

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Data Analysis Result

1. Research Questions

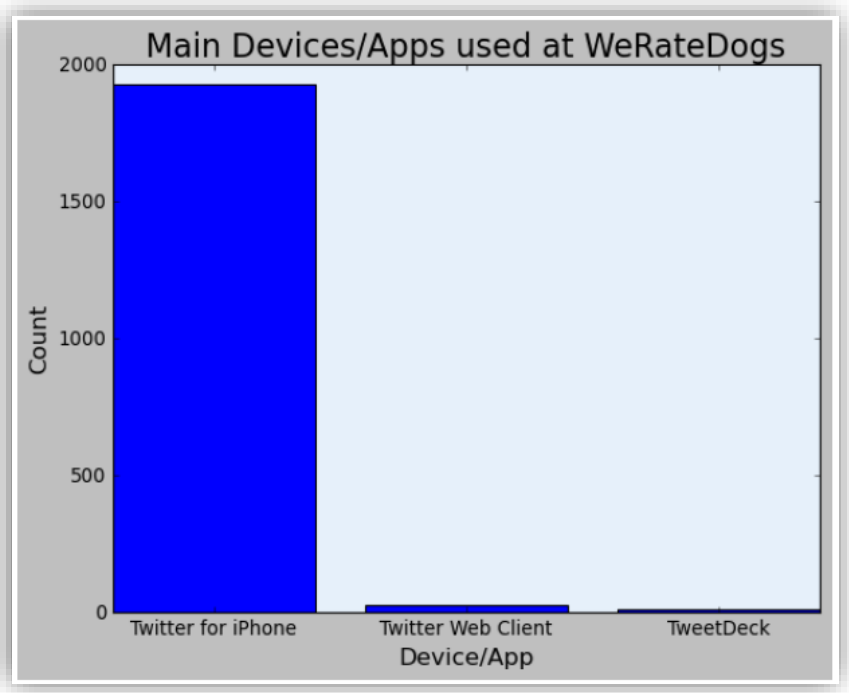
Below are what we tried to find out...

- **Q1** What are the main devices/apps that WeRateDogs' users use?
- **Q2** Is there a relationship between dog rates and retweet count?
- **Q3** Is there a relationship between dog rates and favorite count?
- **Q4** Is there a relationship between favorite count retweet counts?
- **Q5** What time that most of tweets are tweeted at?
- **Q6** Is high confidence prediction meet reality more than low ones?

2. Insights and Conclusion

Q1: What are the main devices/apps that WeRateDogs' users use?

Chart



Conclusion

- **Most** of WeRateDogs' users are using **'Twitter for iPhone'**.

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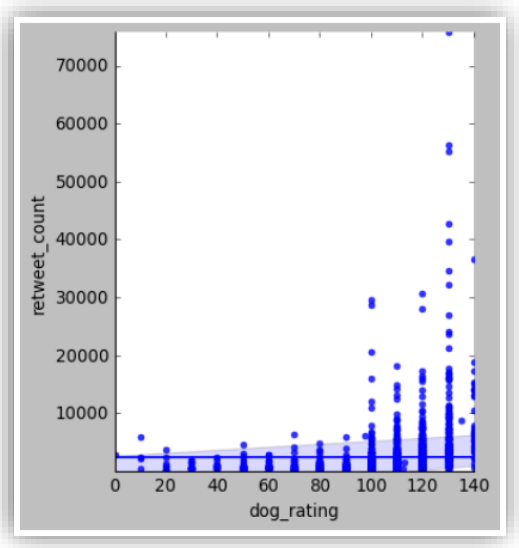
Q2: Is there a relationship between dog rates and retweet count?

Chart

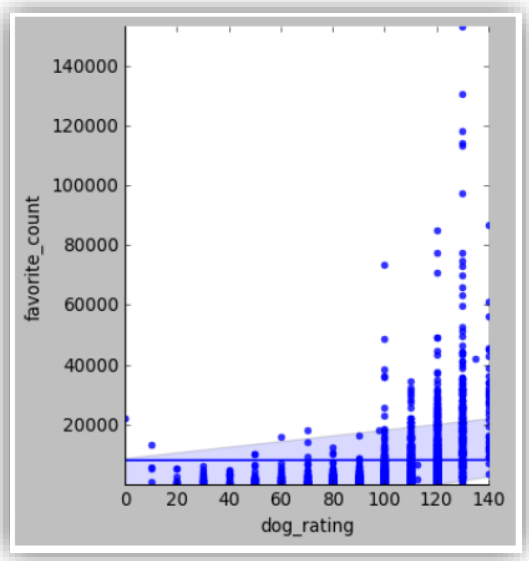


Conclusion

- It is clear that there is a **Positive relationship** between dog_rating & retweet_count.

Q3: Is there a relationship between dog rates and favorite count?

Chart



Conclusion

- It is clear that there is a **Positive relationship** between dog_rating & favorite_count.

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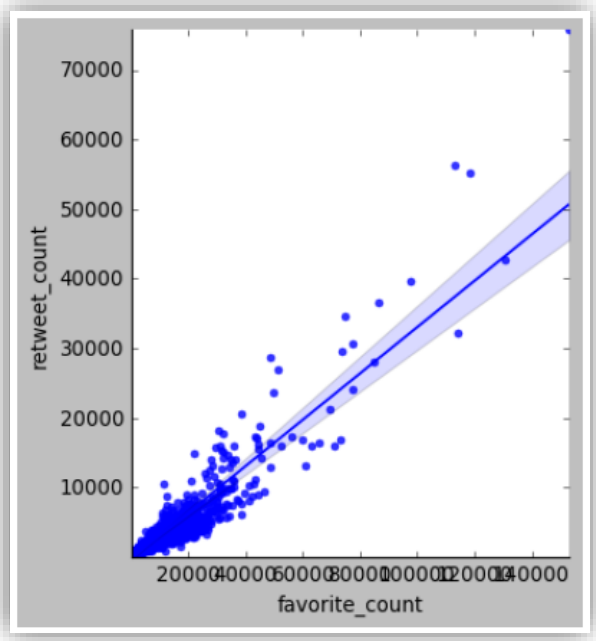
Q4: Is there a relationship between favorite count retweet counts?

Chart

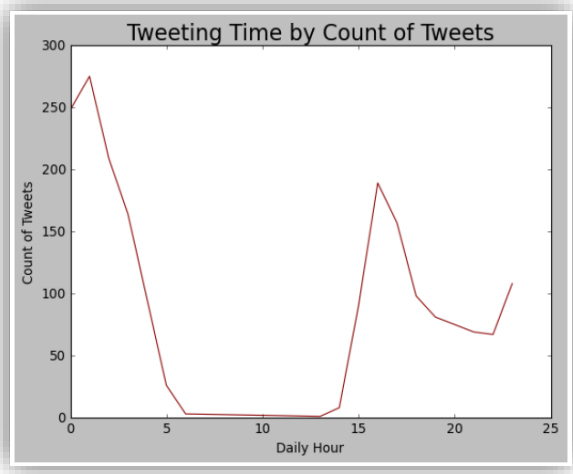


Conclusion

- It is clear that there is a **Strong Positive relationship** between favorite_count & retweet_count.

Q5: What time that most of tweets are tweeted at?

Chart



Conclusion

- The **majority of tweets** were tweeted during hours **[12:00 AM to 03:00 AM]** and **[03:00 PM to 06:00 PM]**

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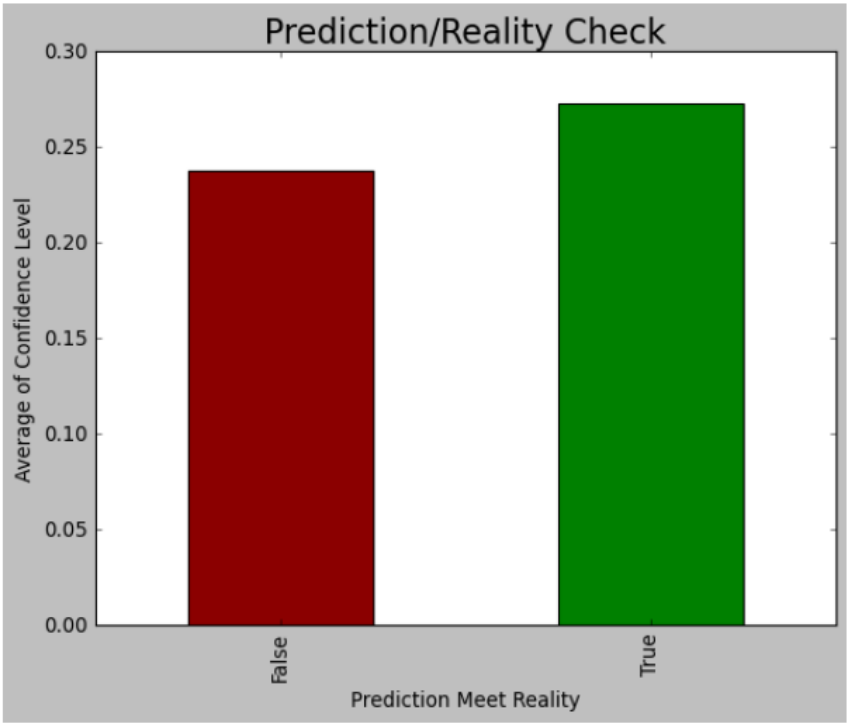
Q6: Is high confidence prediction meet reality more than low ones?

Chart



Conclusion

- It seems that **High prediction confidence level** usually has good **True** reality than **Low confidence**.
- That proves the efficiency of the image prediction model.

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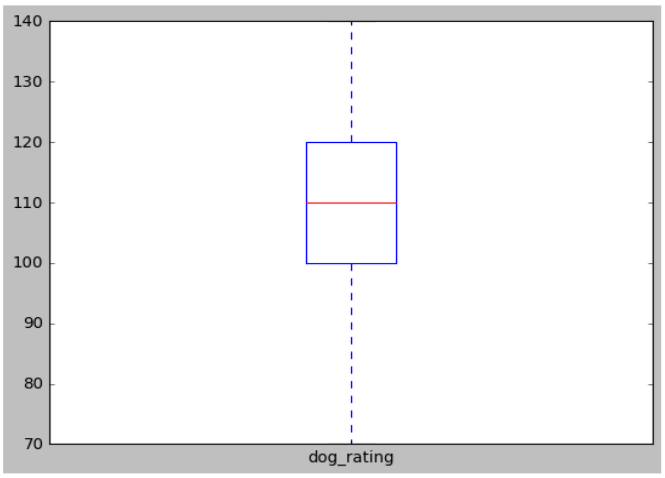
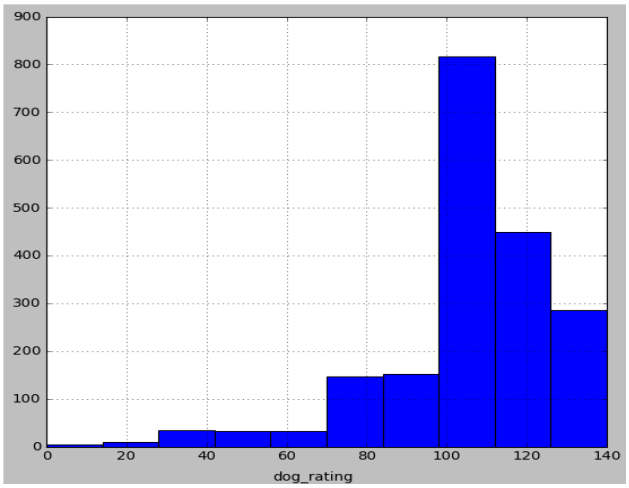
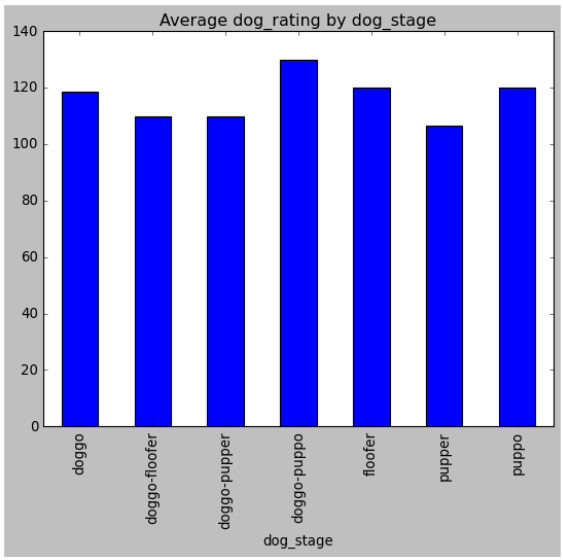
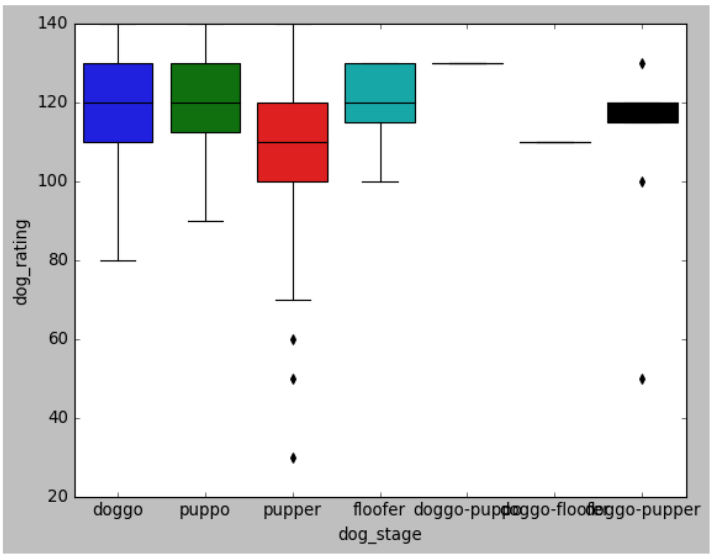
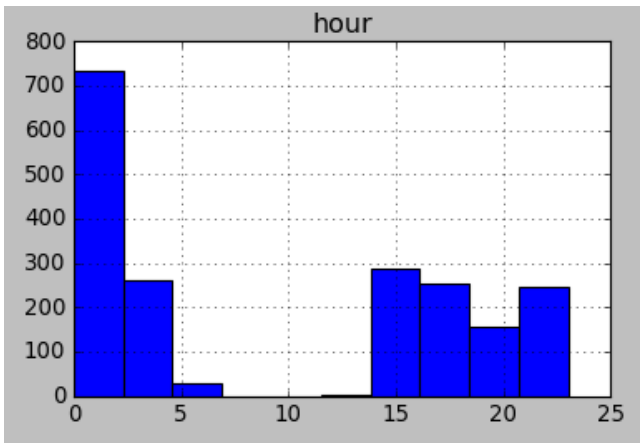
3. Additional EDA Figures











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