

# Act Report



# 1. Intro

This Report is a brief analysis and visualization of the archive and image\_prediction datasets after the data wrangling process

## 2. Image Prediction dataset

### 2.1. How is the algorithm predictions performance?

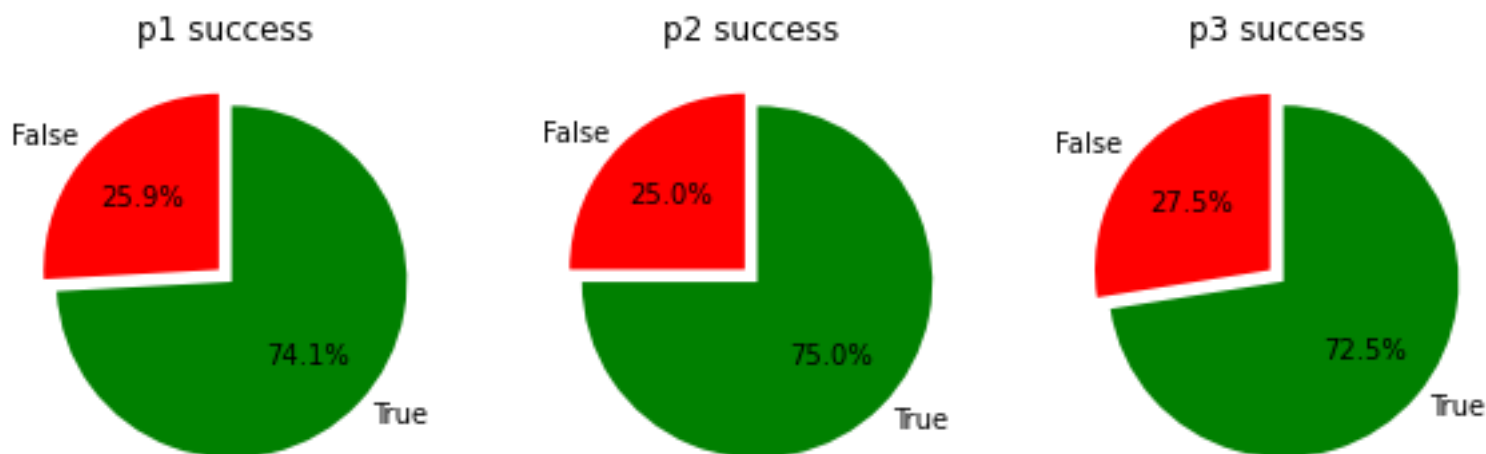


Figure 2.1.1 Predictions success to define dog breed

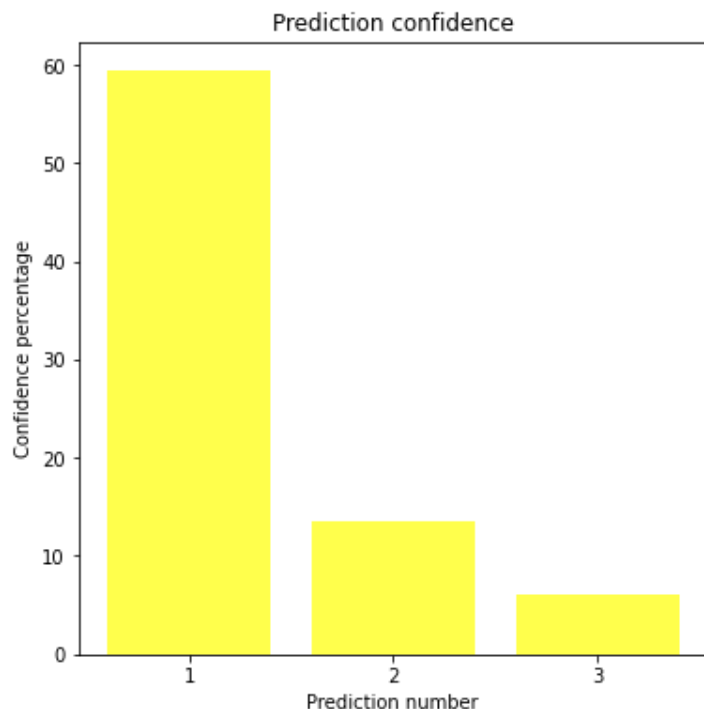


Figure 2.1.2 Prediction Confidence to define dog breed

Notes :

As shown in Graphs below, Each prediction of the algorithm has similar percentage of determining whether the image has a dog or not but the **first prediction** have the higher confidence of determining the dog breed as defined that first prediction is the most likely prediction.

## 2.2. What is the ten most predicted breeds ?

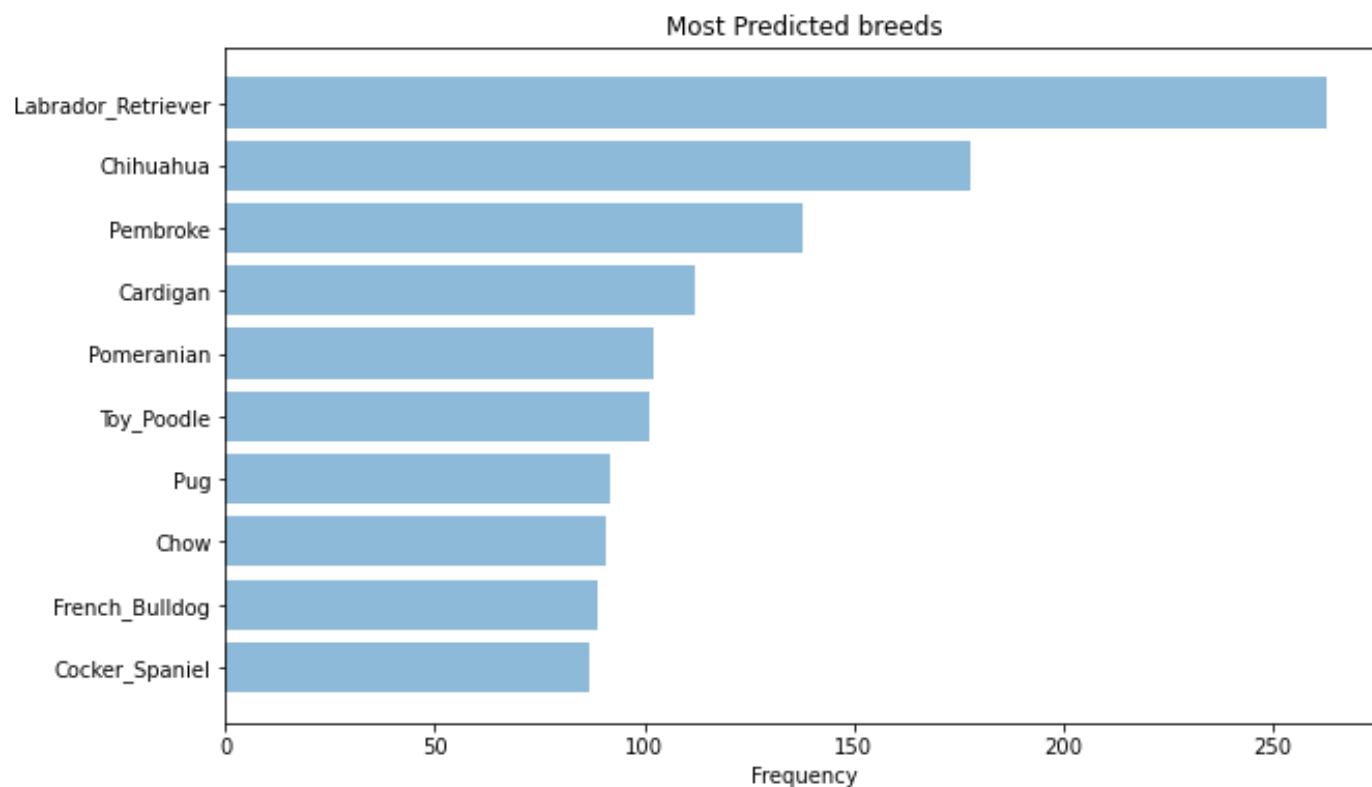


Figure 2.2.1 The ten most predicted breeds

Notes :

From the graph below, It is noticed that **Labrador\_Retriever** is the most predicted breed by the algorithm and this is normal as **Labrador\_Retriever** is the most popular breed worldwide [Source](#)

### 3. Archive dataset

#### 3.1. How is the tweets' interaction per month ?

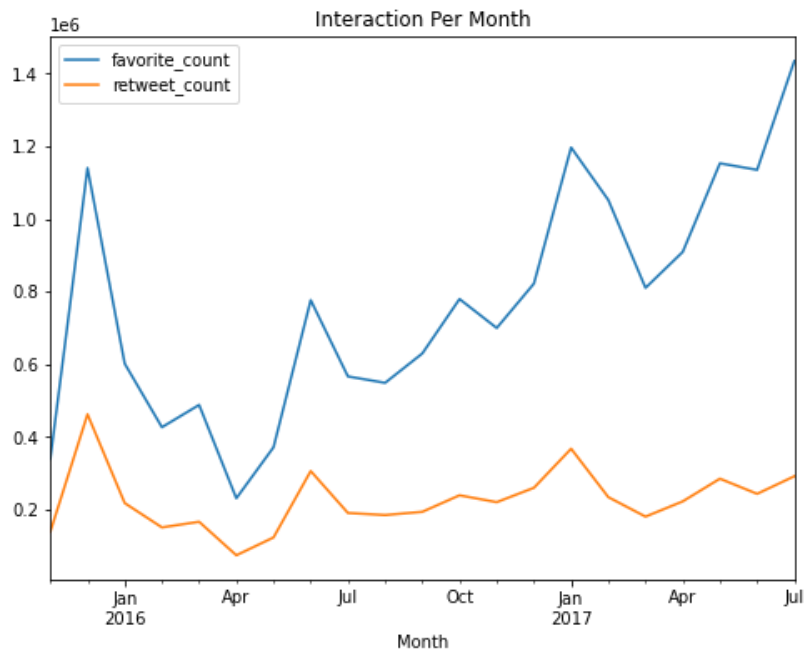


Figure 3.1.1 favorites and retweets per month

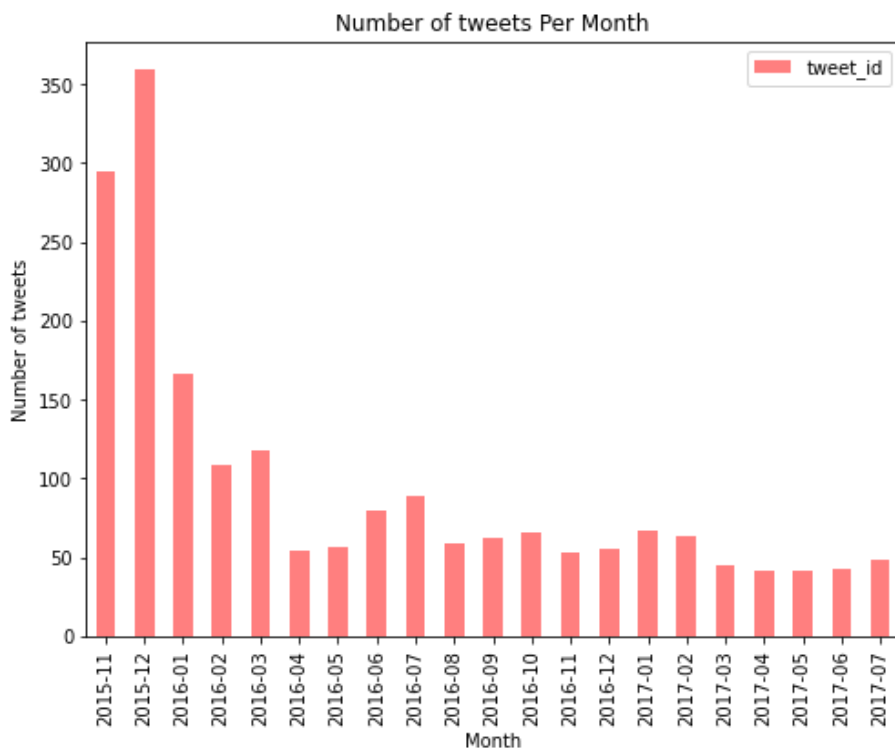


Figure 3.1.2. number of tweets per month

	favorite_count	month_year
763	152885	2016-06
302	130410	2017-01
393	118043	2016-12
107	114232	2017-05
798	113038	2016-06
58	97410	2017-06
326	86515	2017-01
133	84788	2017-05
1402	77508	2015-12
92	77243	2017-06

Figure 3.1.3. Most interacted tweets

Notes:

As shown in figure 3.1.1, 3.1.2 and 3.1.3:

- From **11-2015** to **4-2016**, the account posted a lot of tweets to get a lot of favourites and retweets and when tweets decreases, the favourites and retweets decreases.
- From **5-2016** to **7-2017**, there was an increase in favourites and retweets although the number of tweets decreases. Some tweets gone viral as the maximum favorited tweets is in this period.

### 3.2. What is the source of tweets ?

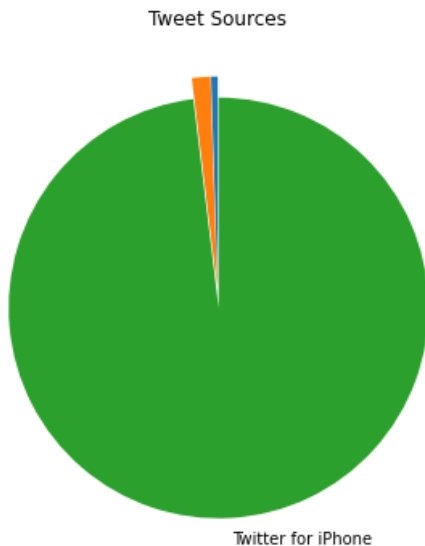


Figure 3.2.1 Tweet sources

As shown in the graph below, Almost all tweets sent from an iPhone which indicate that the account is managed by persons not by a company or an agency and with some search it appears that WeRateDogs account is managed by a college student called Matt Nelson [Source](#)