

- For my insights and visualizations, I will describe and explain each item below:

- **First insight:**

“Which dog the highest favorite count from users?”

- Bedlington_terrier has the highest favorite rate from WeRateDogs users although it's not the top count of breed of dog's dedicated by image:

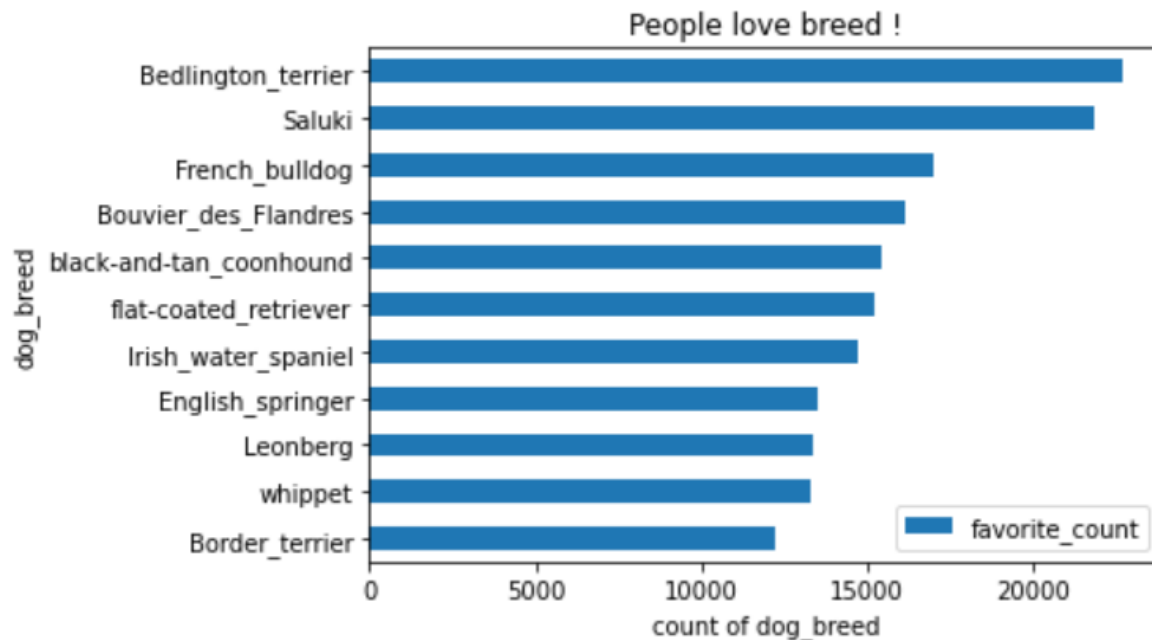
Insight number 1:

breed of dog "bedlington terrier" is the highest favorite dog breed from users

```
In [88]: breed_mean_favourite = twitter_master.groupby(['dog_breed']).favorite_count.mean().sort_values(ascending=False)[10::-1]
breed_mean_favourite
```

```
Out[88]: dog_breed
Border_terrier      12260.428571
whippet             13277.000000
Leonberg           13347.333333
English_springer    13484.000000
Irish_water_spaniel 14708.000000
flat-coated_retriever 15226.375000
black-and-tan_coonhound 15397.000000
Bouvier_des_Flandres 16174.000000
French_bulldog      16973.931034
Saluki              21853.750000
Bedlington_terrier  22726.666667
Name: favorite_count, dtype: float64
```

First visualization:



- **Second insight:**

“Which dog breed was highly predicted from neural network?”

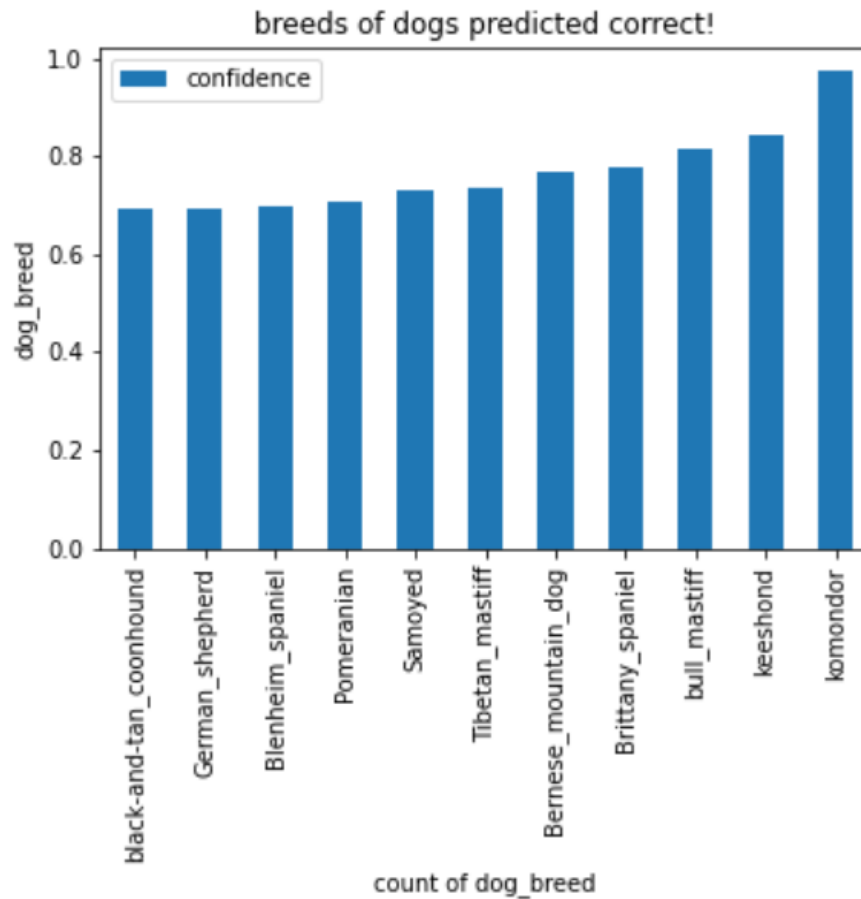
- "komondor" is the highest predicted breed

```
In [89]: dog_breed_prediction = twitter_master.groupby(['dog_breed']).confidence.mean().sort_values(ascending=False)[10::-1]
```

```
In [90]: dog_breed_prediction
```

```
Out[90]: dog_breed
black-and-tan_coonhound    0.692000
German_shepherd            0.694426
Blenheim_spaniel           0.699588
Pomeranian                 0.705332
Samoyed                    0.728503
Tibetan_mastiff            0.737021
Bernese_mountain_dog       0.766685
Brittany_spaniel           0.775591
bull_mastiff               0.815618
keeshond                   0.844431
komondor                   0.972531
Name: confidence, dtype: float64
```

- Second visualization:



- Third insight:

“Which dog type has the best rating from users?”

- Some images have more than one dog_stage like doggo-puppo which rated the best image from users

doggo-puppo is the highest top rated dog type

```
In [92]: dog_stage_rating=twitter_master.groupby(['dog_stage']).dog_rating.mean().sort_values(ascending=False)[10::-1]
```

```
In [93]: dog_stage_rating
```

```
Out[93]: dog_stage
doggo-pupper    10.800000
pupper          10.839506
doggo-floofer   11.000000
doggo           11.862745
puppo           11.950000
floofer         12.000000
doggo-puppo     13.000000
Name: dog_rating, dtype: float64
```

Third visualization:

