

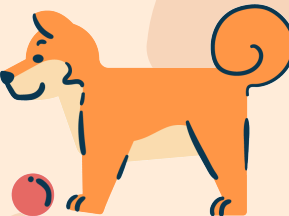
IN PARTNERSHIP WITH SHARKNATION

**“My cats  
inspire me  
daily. They  
inspire me to  
get a dog!”**

PRESENTED BY: LUIS QUINAZ

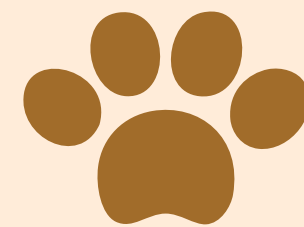


# Dataset

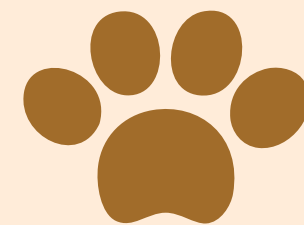


Breed	Description	Max Life	Min Life	Male Max Weight	Male Min Weight	Female Max Weight	Female Min Weight	Hypoallergenic	Size Category
Caucasian Shepherd Dog	The Caucasian Shepherd Dog is a large and powe...	20	15	90	50	70	45	False	Giant
Japanese Terrier	The Japanese Terrier is a small breed of terri...	20	15	4	2	4	2	False	Small
Schipperke	The Schipperke is a small breed of dog from Be...	17	15	7	5	7	5	False	Small
Icelandic Sheepdog	The Icelandic Sheepdog is a small and energeti...	16	14	20	14	20	14	False	Medium
German Spitz	The German Spitz is a small to medium-sized do	16	14	7	3	7	3	False	Small

# Hypothesis Outline

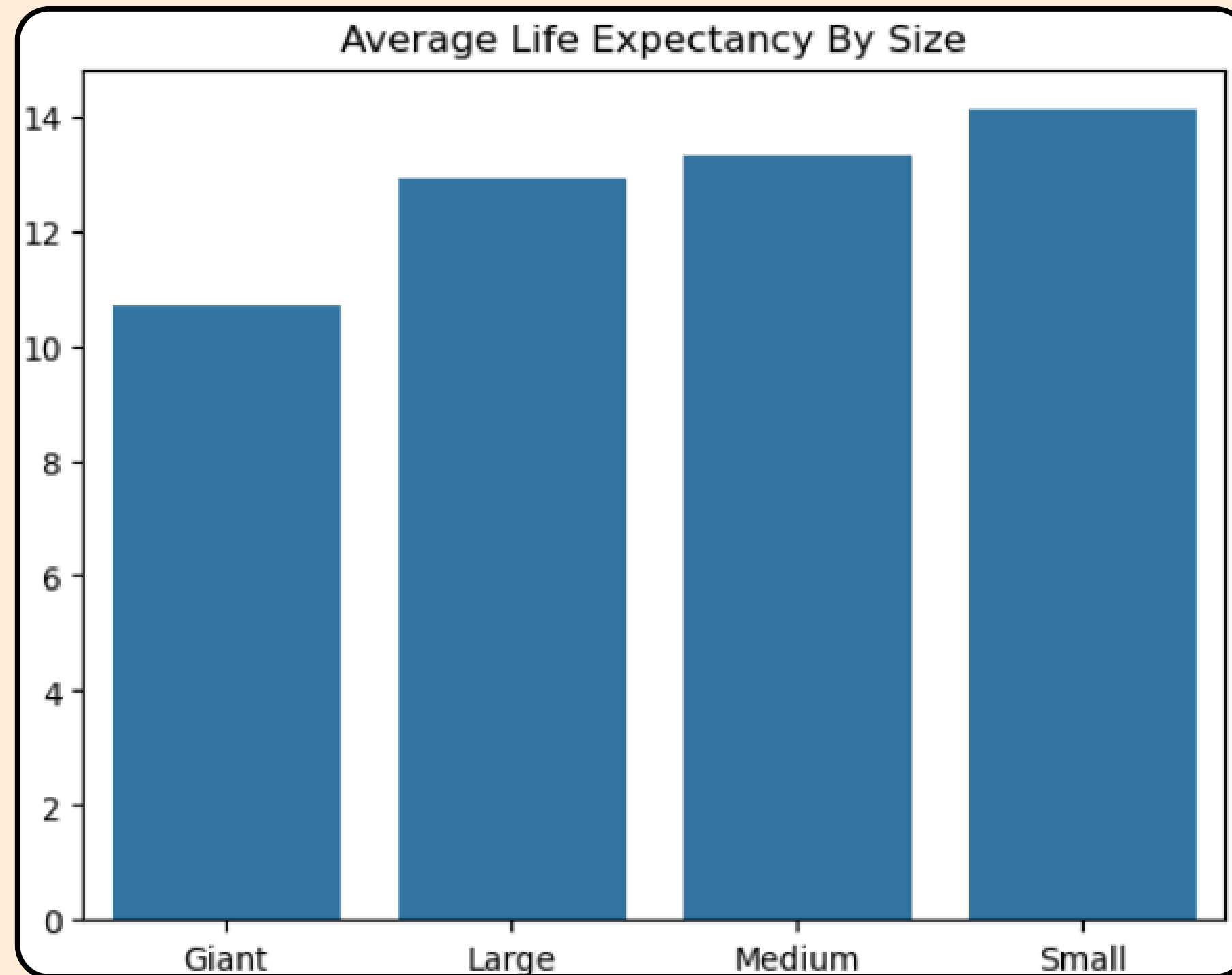


**LIFE EXPECTANCY VS. SIZE**



**SEXUAL DIMORPHISM IN WEIGHT**

# Life Expectancy vs. Size



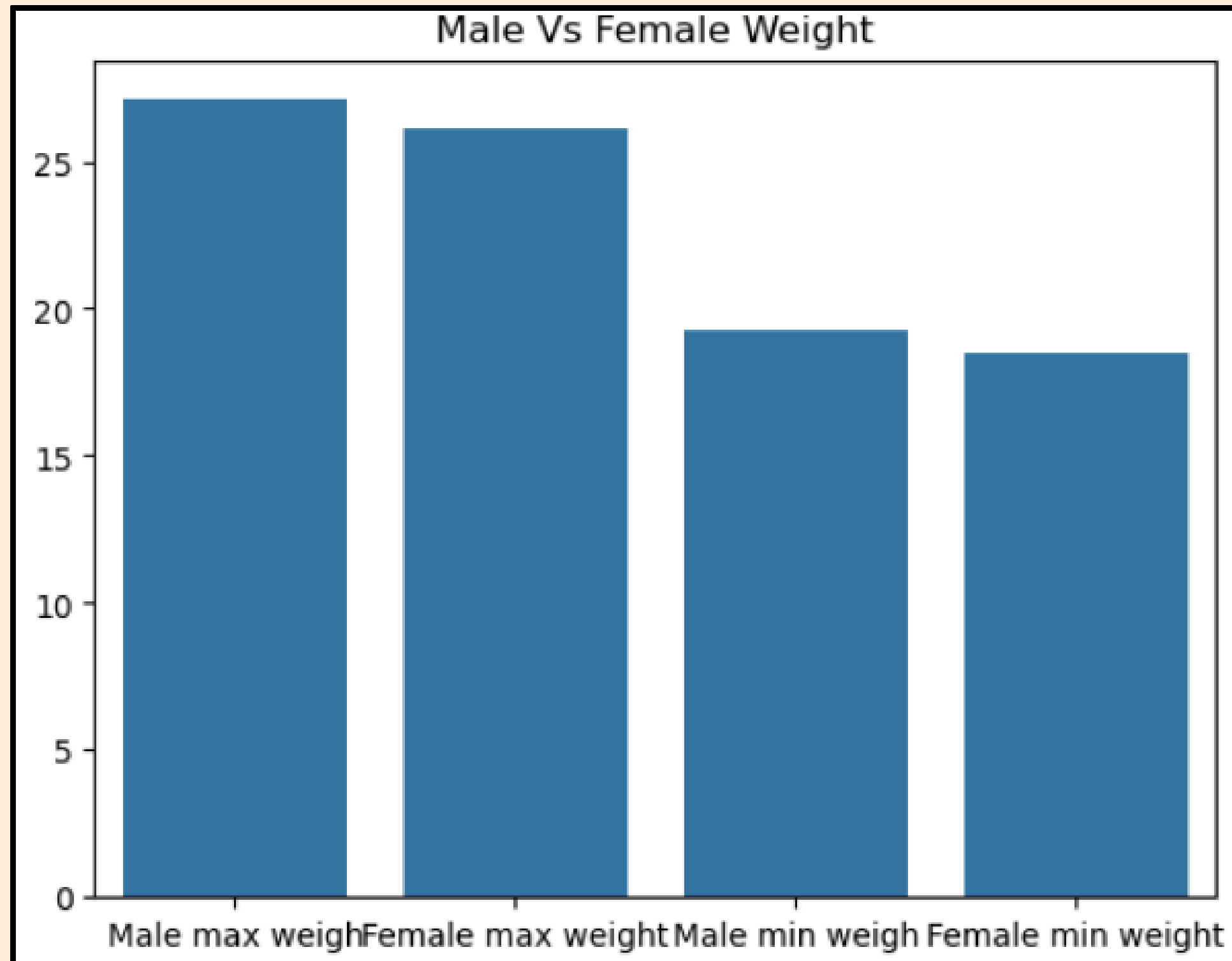
## Size Categories based on Weight:

- Small: Less than 10 kg
- Medium: 10–25 kg
- Large: 25–45 kg
- Giant: More than 45 kg

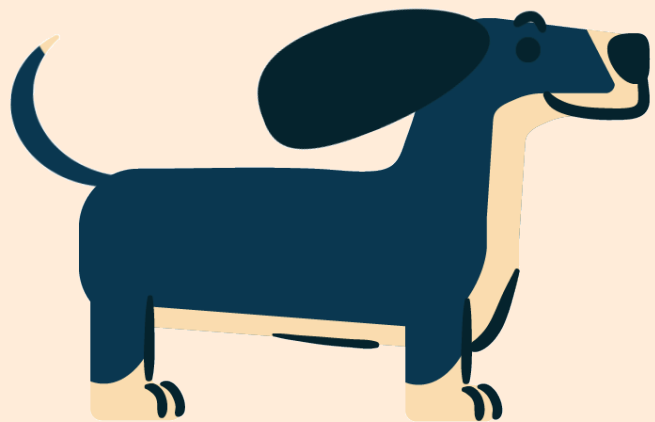


*H1: Do smaller dog breeds tend to live longer than larger breeds?*

# Sexual Dimorphism in Weight



Male max weight is: 27.13427561837456  
Female max weight is: 26.08833922261484  
Male min weight is: 19.30388692579505  
Female min weight is: 18.547703180212014



*H2: Are male dogs are generally heavier than female dogs across all breeds?*



# Major Challenges:



## DATA READABILITY

```
coat of fur. They have a dignified and independent demeanor, with an instinct for hunting. They are highly intelligent and trainable, but require firm and consistent training to be obedient. They are loyal and devoted to their family, but can be stubborn and independent at times.',
  'life': {'max': 15, 'min': 12},
  'male_weight': {'max': 8, 'min': 7},
  'female_weight': {'max': 8, 'min': 7},
  'hypoallergenic': False,
  'relationships': {'group': {'data': {'id': '1bbf373b-1937-4e73-9863-45385daa4979',
    'type': 'group'}}}},
  'links': {'self': 'https://dogapi.dog/api/v2/breeds',
    'current': 'https://dogapi.dog/api/v2/breeds?page[number]=1',
    'next': 'https://dogapi.dog/api/v2/breeds?page[number]=2',
    'last': 'https://dogapi.dog/api/v2/breeds?page[number]=29'}}
```



## DATA MANIPULATION

```
df_0 = pd.DataFrame(good_doggy[0]['data'])
df_0 = pd.json_normalize(df.to_dict(orient='records'))
```



## DATA AGREGATION

```
df = pd.concat([
  df_1, df_2, df_3, df_4, df_5, df_6, df_7, df_8, df_9, df_10,
  df_11, df_12, df_13, df_14, df_15, df_16, df_17, df_18, df_19, df_20,
  df_21, df_22, df_23, df_24, df_25, df_26, df_27, df_28, df_29])
```



*H2: Are male dogs are generally heavier than female dogs across all breeds?*

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# Thank you for listening!

DON'T HESITATE TO ASK ANY QUESTIONS!

