Dog breed analysis

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HYPOTHESIS TO ACHIEVE

- Which variables should we analyze in dog breeds behaviour?

- Which dog breeds have better behaviour around children, adults and other dog?

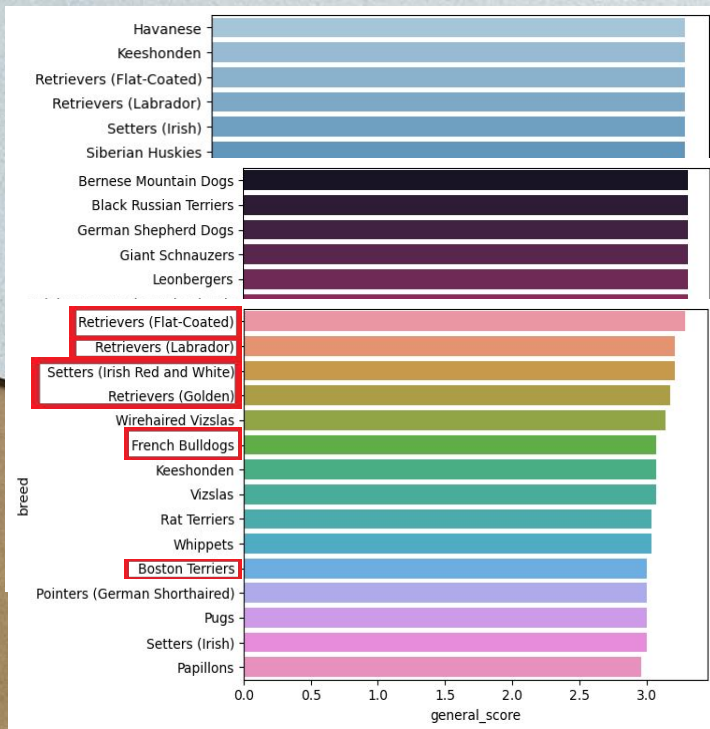- What is the cost of maintenance of those breeds?

DATABASES

kaggle

1. **Breed**: The name of the dog breed.

2. **type**: The category or group the breed belongs to, such as terrier, sporting, working, or non-sporting.

3. **score**: A subjective score assigned to the breed based on an unspecified rating system.

4. **popularity ranking**: The popularity rank of the breed.

5. **size**: The size category of the breed, typically measured on a scale (1 for small, 2 for medium, etc.).

6. **intelligence**: The intelligence level of the breed, categorized as Brightest, Above average, Excellent, Average, etc.

7. **congenital ailments**: Common genetic health issues associated with the breed.

8. **score for kids**: A rating indicating how suitable the breed is for families with children. Higher scores suggest greater suitability. Intelligence + longevity + ailments + cost scores (50% each) + 100% grooming score. highest possible score: 5

9. **$LIFETIME COST**: The estimated lifetime cost of owning the breed, expressed in dollars.

10. **INTELLIGENCE RANK**: The intelligence rank of the breed

11. **INTELLIGENCE %**: The intelligence level of the breed, expressed as a percentage.

12. **LONGEVITY (YEARS)**: The average lifespan of the breed, expressed in years.

13. **NUMBER OF GENETIC AILMENTS**: The number of common genetic health issues the breed is prone to.

14. **GENETIC AILMENTS**: The specific genetic health issues associated with the breed.

15. **PURCHASE PRICE**: The average purchase price of the breed, expressed in US dollars.

16. **FOOD COSTS PER YEAR**: The estimated annual cost of feeding the breed.

17. **GROOMING FREQUENCY**: How often the breed requires grooming, typically measured in frequency (daily, once a week, once in a few weeks).

18. **SUITABILITY FOR CHILDREN**: The suitability of the breed for families with children, typically measured on a scale (1 = high suitability, 2= medium suitability, 3= low suitability).

The databases used for this analysis comes rank extended list of different dog breeds in:

- Name
- Family Affect
- Playfulness Level
- Longevity Years
- Ailments
- and many more

DATA STORYLINE

First approach:

which is our top dogs in term of sociability:

1. Analysis of "human affection variables" and "playfulness levels"
2. Dogs that need more effort in their maintenance
3. Score using all variables with its respective weights

CONTENDERS

Flat-coated Retriever
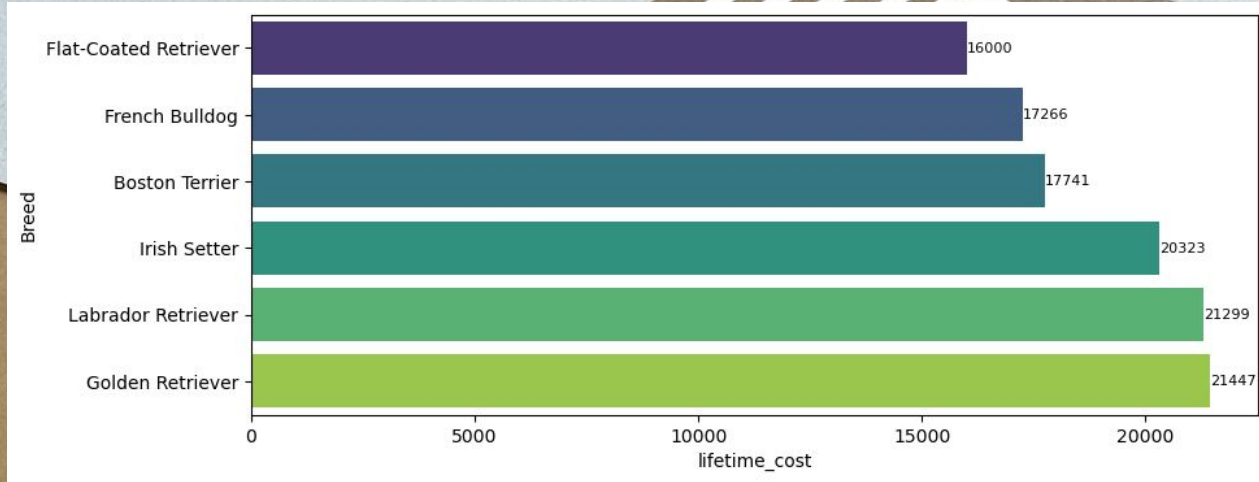

Setters Irish

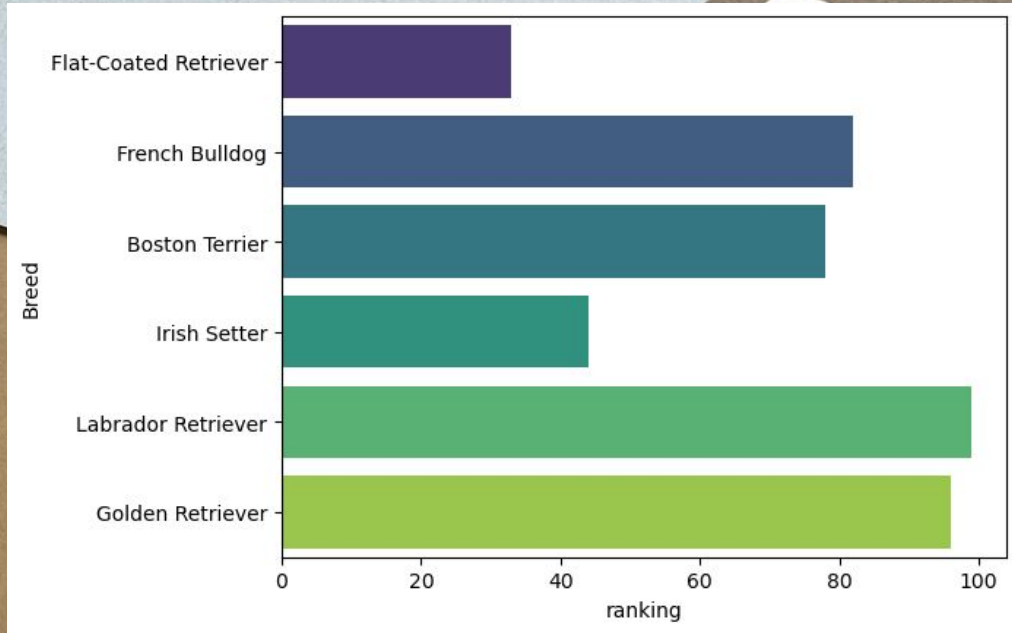Retriever Labrador

Boston Terrier

French bulldog

LIFETIME COST

- Analysis of the entire life estimated cost of each one
- Most expensive one - **Golden retriever**
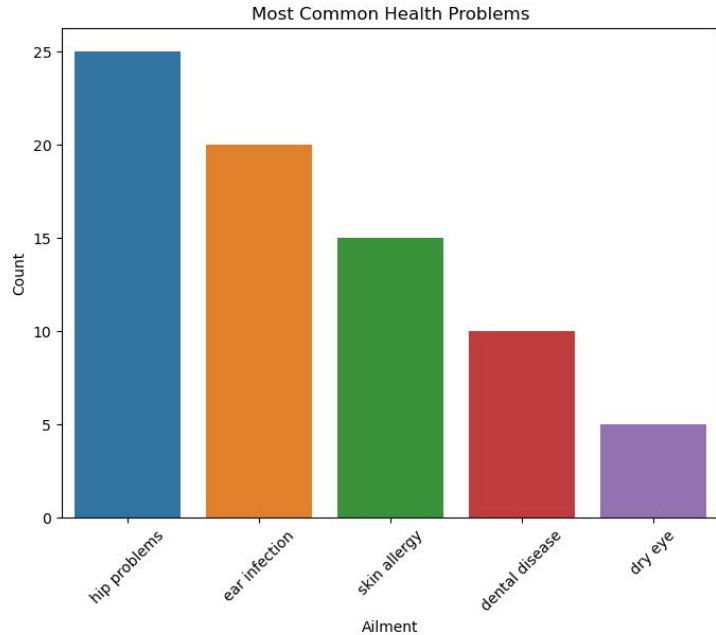- Less expensive one - **Flat-Coated retriever**

POPULARITY

- Analysis of how popular are each of the breeds.
- 1st and 2nd **Labrador and Golden Retriever**
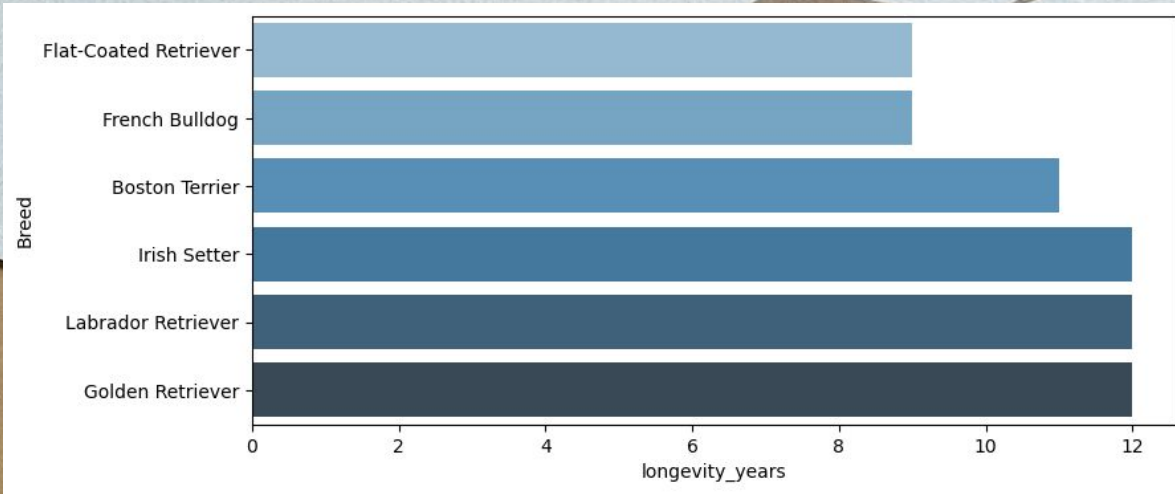- Less popular **Flat-Coated Retriever**

HEALTH

Most Common Health Problems

- **Hip dysplasia** is a common especially in large dogs.

- **Ear infections** are common in breeds with floppy ears.

- **Skin allergies** are widespread, affecting all dog types.

- **Periodontal disease** is common in toy breeds.

LONGEVITY

Factors Affecting Longevity

- Genetics
- Diet and Nutrition
- Exercise

CONCLUSIONS

1

Prioritize including highly sociable breeds such as Flat Coated Retrievers, Labrador, Retrievers and Golden Retrievers in the cafe.

2

Allocate a sufficient budget for the maintenance of different breeds, Include costs for grooming, food, and medical care in the financial planning.

3

Implement regular health check-ups and preventive care for common issues such as hip dysplasia, ear infections, skin allergies, and periodontal disease.