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POSTERS

THE LIKELIHOOD OF DOG ADOPTION DEPENDING ON SHELTER STAY DURATION: STATISTICAL ANALYSIS AND STRATEGIC SOLUTIONS

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Animal care organizations face significant costs for food, medical care, and sheltering. Increasing adoption rate is essential to reduce these expenses and improve animal well-being. This study examines the likelihood of dog adoption based on their shelter stay duration and other factors such as age, gender, size, and color. The research aims to explore factors influencing enabling to reduce shelter occupancy, and improve animal well-being by facilitating the transition to new homes. Data from the “Penkta Koją” shelter was analyzed by using regression and clustering methods. Each additional month of dog age increases adoption likelihood by 1.78% ($p = 0.043$), and every year of age raises it by 3.33% ($p = 0.0002$). Gender, size, and color had no significant impact. Targeted marketing campaigns for older dogs, emphasizing their unique traits and stories, can strengthen the interest of potential adopters. Long-term fostering programs could reduce costs, while segmentation by size and age can enhance adoption strategies tailored to different groups.

Key words: *adoption likelihood, dogs, shelter, duration of stay, analysis*

POSTERS

Vilnius University Kaunas Faculty
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The likelihood of dog adoption depending on shelter stay duration: statistical analysis and strategic solutions

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Problem and Relevance

Animal care organizations face high costs associated with food, medical care, and sheltering. Increasing adoption rates is crucial to reduce these expenses and improve animal welfare. Understanding factors influencing adoption likelihood can optimize shelter resources and facilitate quicker transitions to new homes.

Aim

To examine the likelihood of dog adoption based on shelter stay duration and other factors, and to explore strategies for reducing shelter occupancy while improving animal well-being.

Research Methods

- Data Source: Analysis of data from the "Penkta Koja" shelter.
- Techniques Used: Regression and clustering methods.
- Key Variables: Age, gender, size, and color of dogs.

Keywords

Adoption likelihood, dogs, shelter, duration of stay, analysis.

Key Results

- Each additional month of a dog's age increases adoption likelihood by 1.78% ($p = 0.043$).
- Each year of age raises adoption likelihood by 3.33% ($p = 0.0002$).
- Gender, size, and color showed no significant impact on adoption likelihood.

Recommendations

- Targeted Marketing: Focus on older dogs by highlighting their unique traits and stories to attract potential adopters.
- Long-term Fostering Programs: Reduce operational costs by encouraging fostering.
- Adoption Strategy Segmentation: Tailor campaigns by segmenting dogs based on age and size to maximize adoption rates.

