



*Data Source: PetFinder.my (Malaysia)*

# PET ADOPTION OUTCOME PREDICTION



*Presented by: Ivy Sun*

# RESEARCH QUESTION

**CAN WE PREDICT HOW FAST A PET WILL  
BE ADOPTED BASED ON ITS  
CHARACTERISTICS?**

**FEATURES WE ANALYZE**



**Why do we care?**

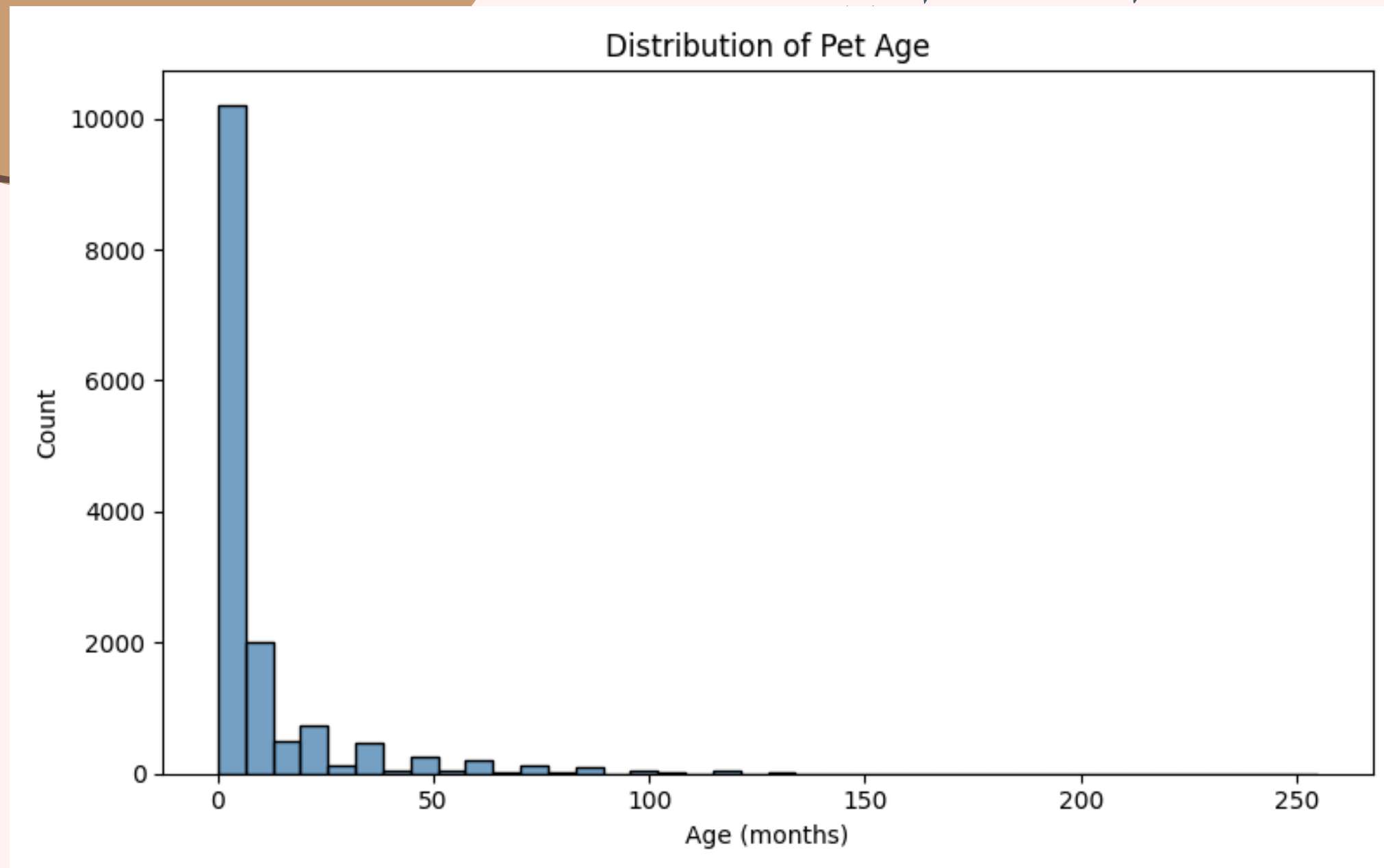
Predicting adoption speed helps shelters support pets earlier and reduce euthanasia.

- SPECIES
- BREED
- AGE
- COLOR
- GENDER
- HEALTH
- NUMBER OF PHOTOS



# DATASET OVERVIEW

- Dataset comes from PetFind.my, Malaysia's largest pet adoption platform.
- 15,000+ pet records
- Mix of numeric, categorical, and text features
- Target variable: AdoptionSpeed (0-4)

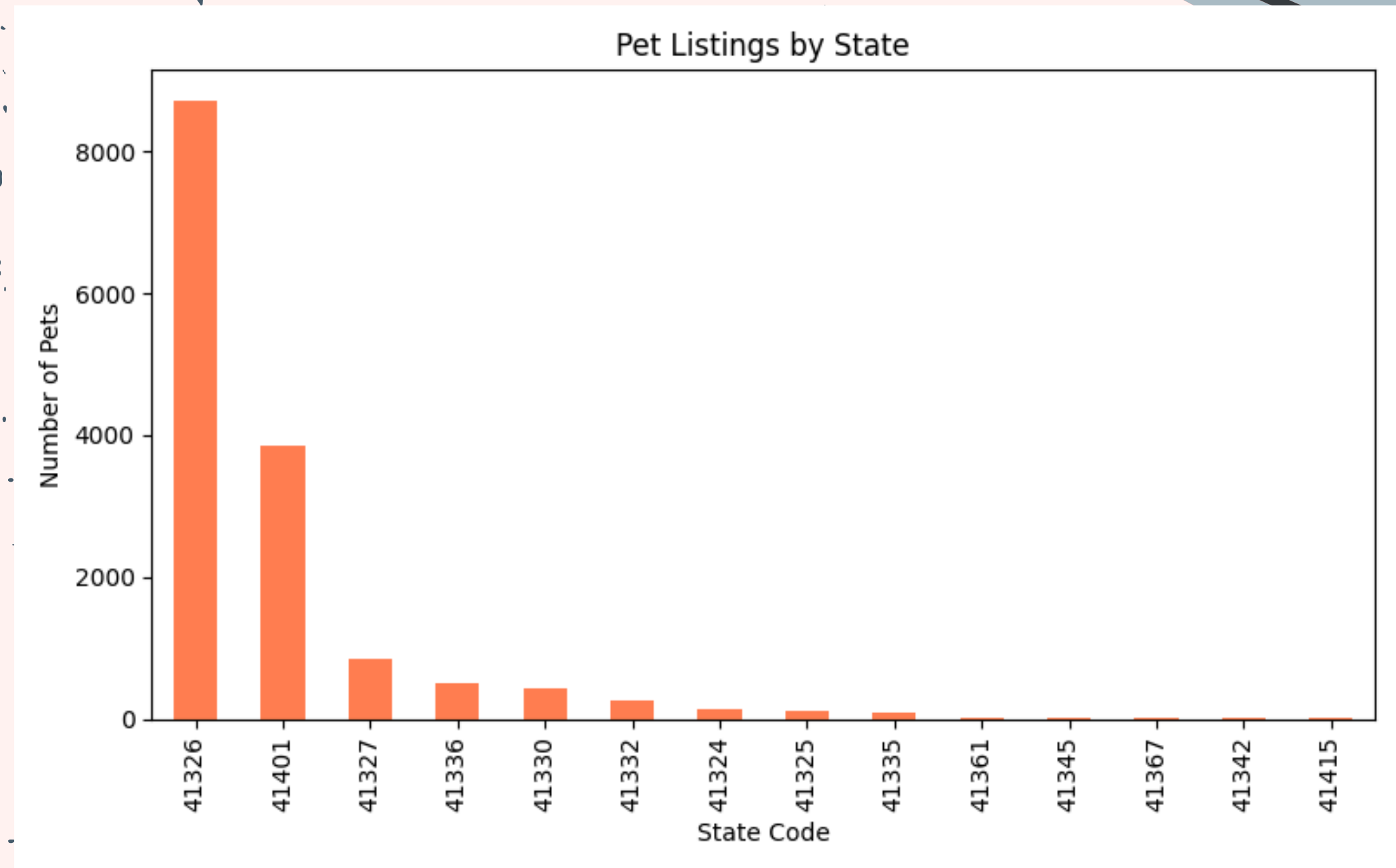


Most pets are very young, mainly under 6 months.

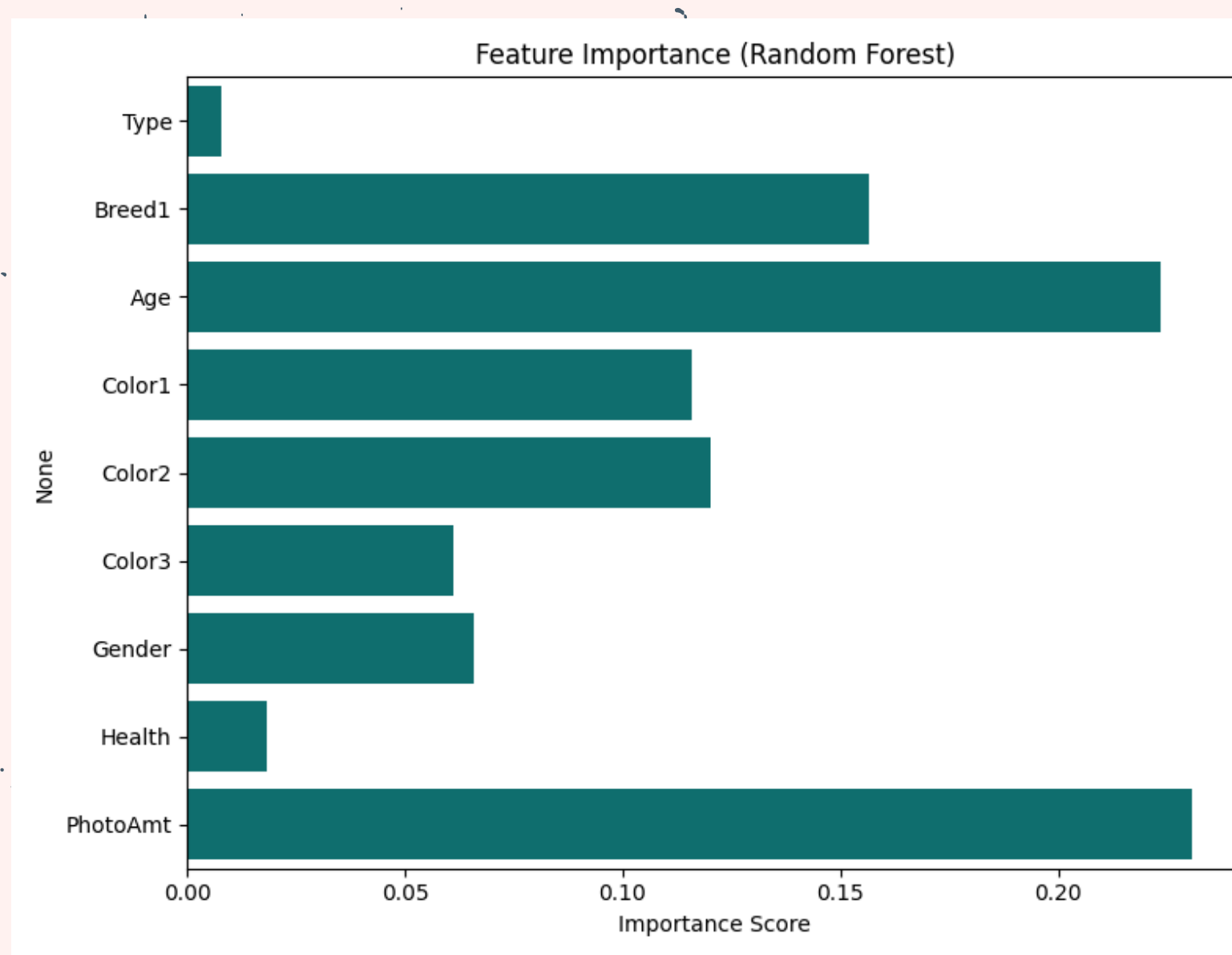


# GEOGRAPHIC PATTERN

- Adoption listings vary greatly across regions
- State 41326 has the highest number of pets
- Indicates uneven adoption activity



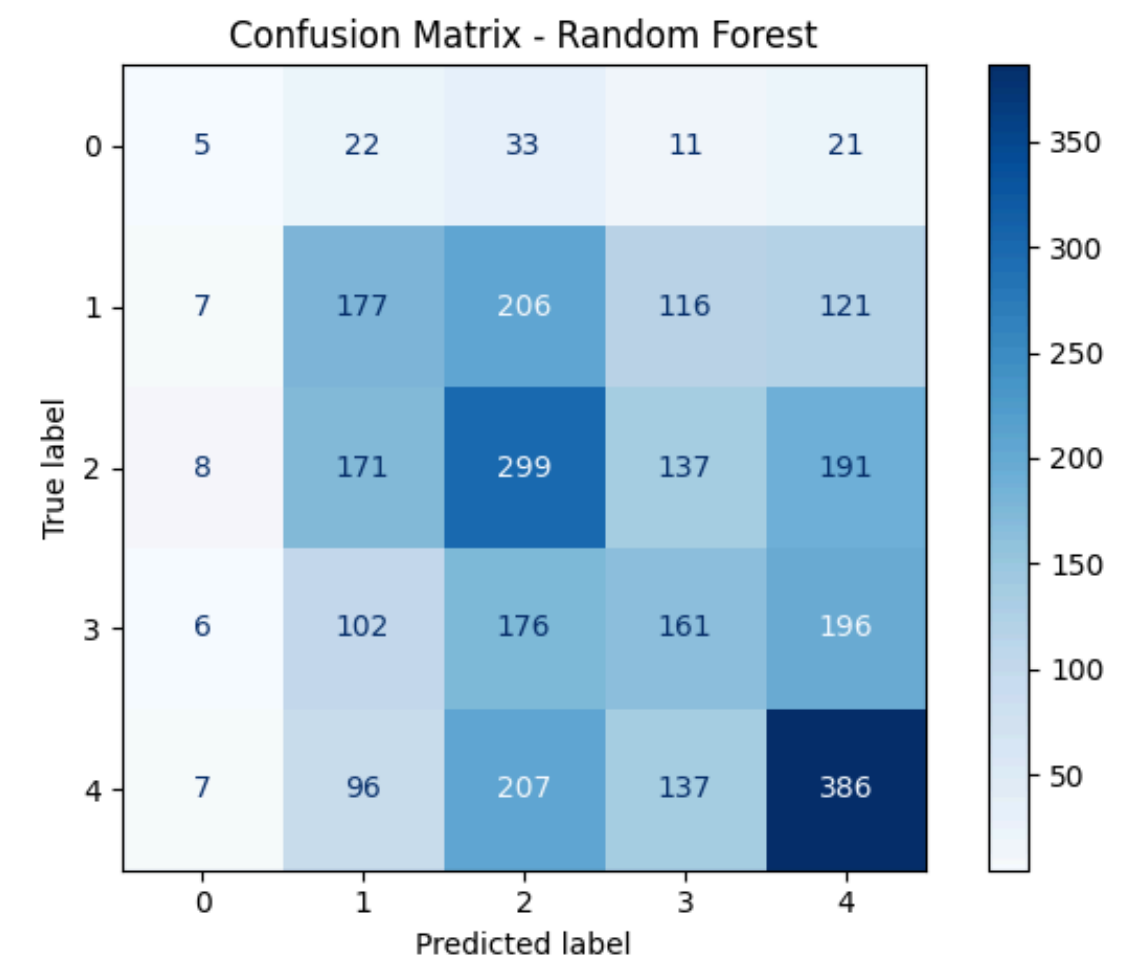




**These features contributed the most to adoption speed.**

- Random Forest performed best (~34% accuracy)
- Top predictors were Breed, Age, and the Number of Photos.

- Prediction accuracy is limited because adoption outcome depends heavily on human behavior, not just pet features.





**THANKS  
FOR  
WATCHING!**