

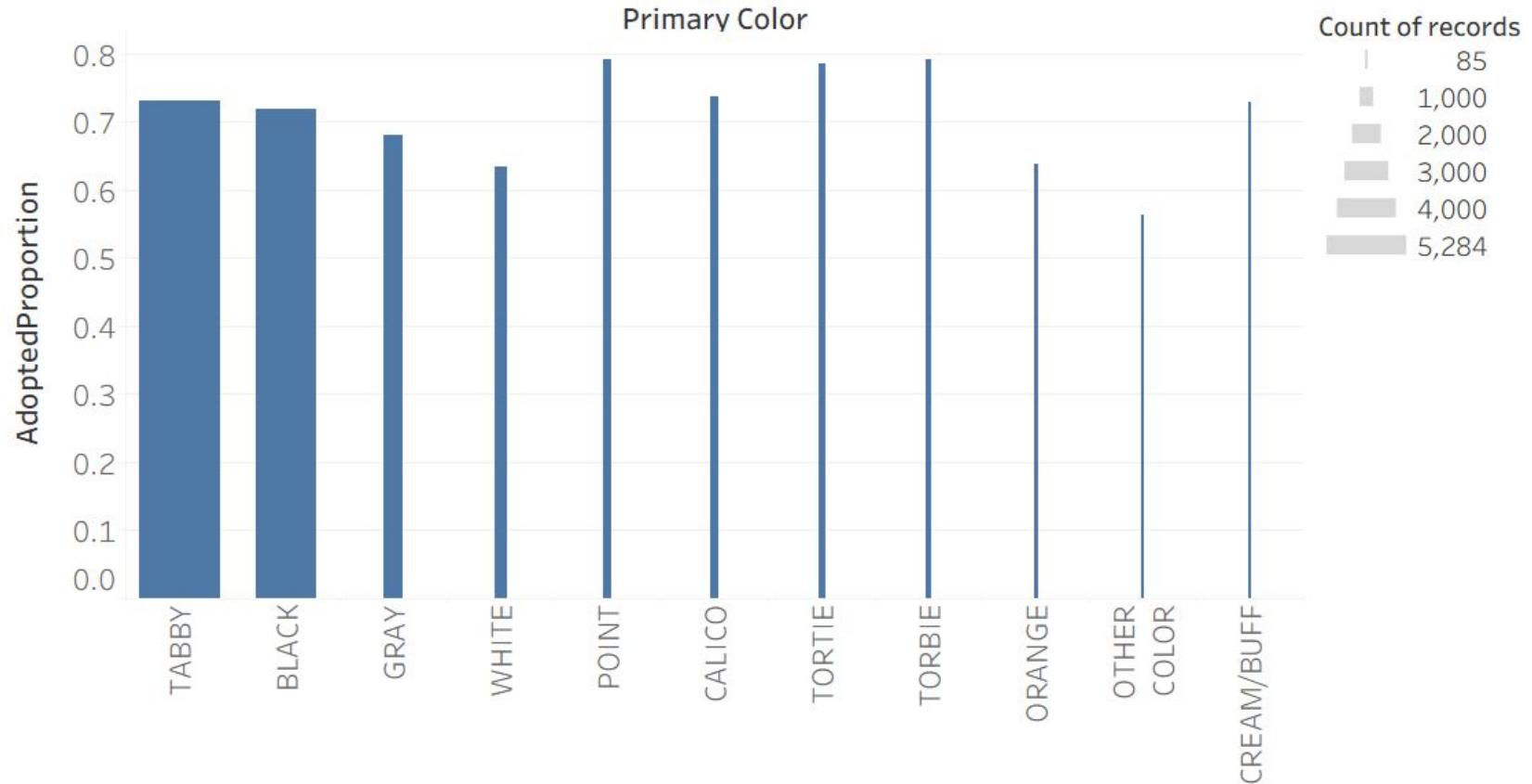
What Influences Cat Adoptions?



By Dylan Starink



Primary Color on Adoption Proportion



AdoptedProportion for each Primary Color. Size shows count of records. The data is filtered on Outcome Type, which keeps ADOPTION and EUTH.

Animal Shelter Intake and Outcomes Dataset

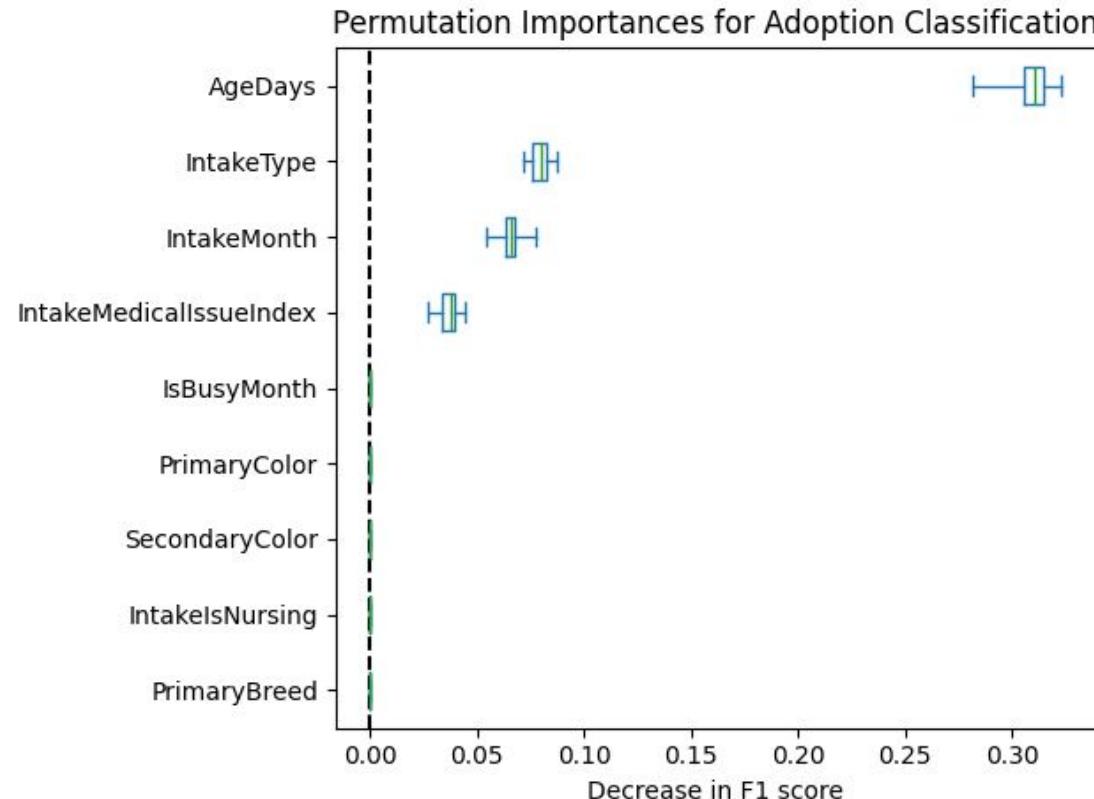
Data goes back till 2021

~9k Cat Adoptions

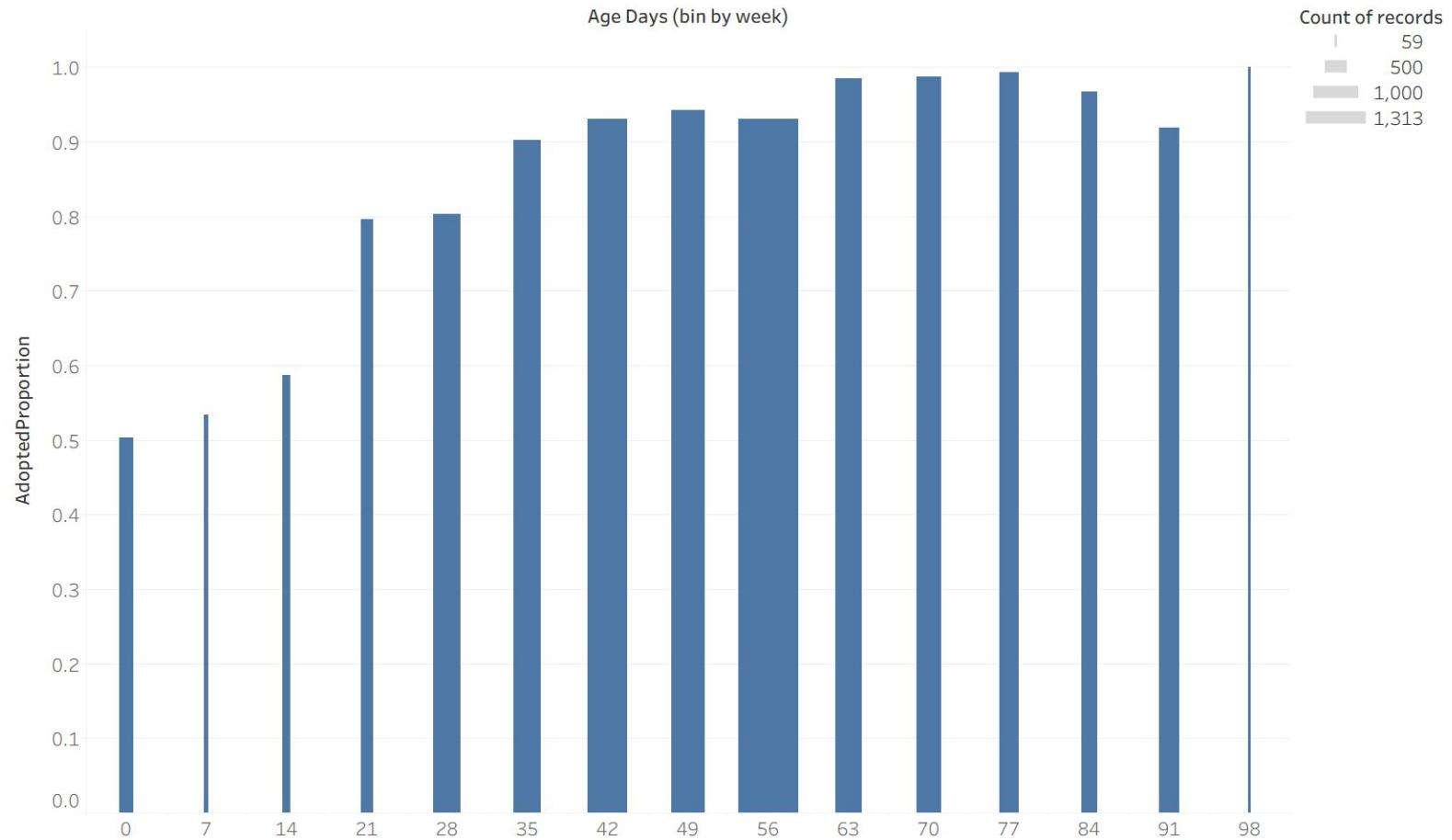
~33k Total Cat Records



Machine Learning!

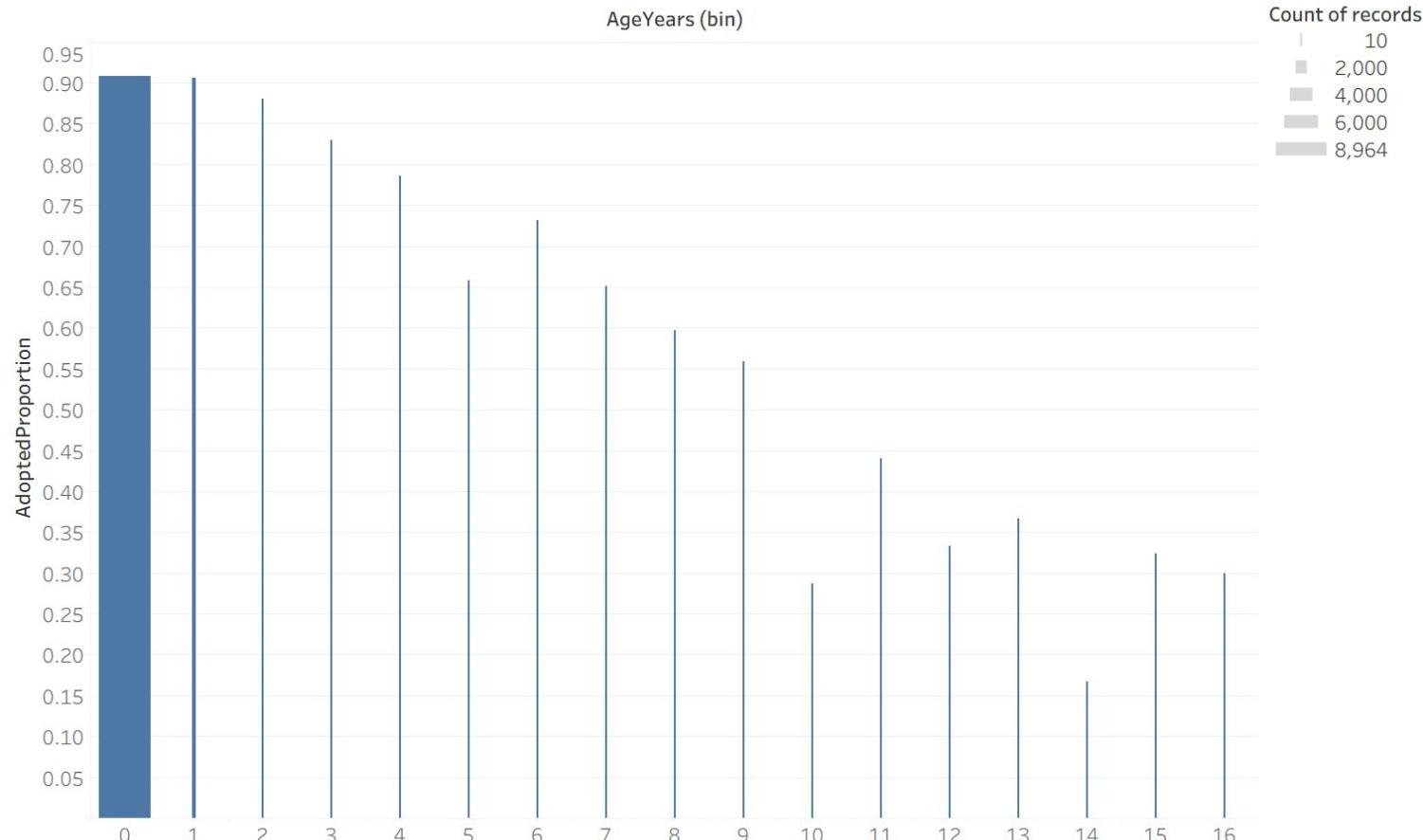


Young Cats Adoption by Age



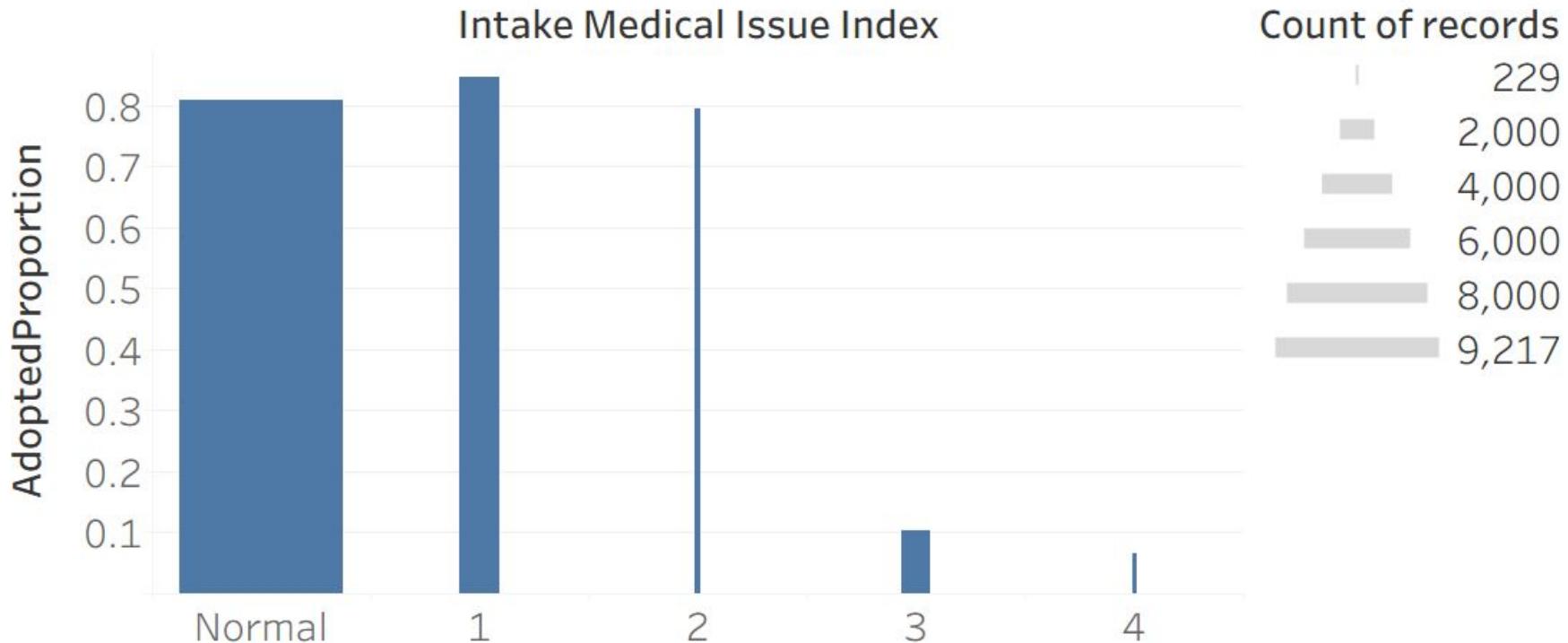
AdoptedProportion for each Age Days (bin by week). Size shows count of records. The data is filtered on Age Days and Outcome Type. The Age Days filter ranges from 0 to 100. The Outcome Type filter keeps ADOPTION and EUTH.

Older Cats Adoption by Age



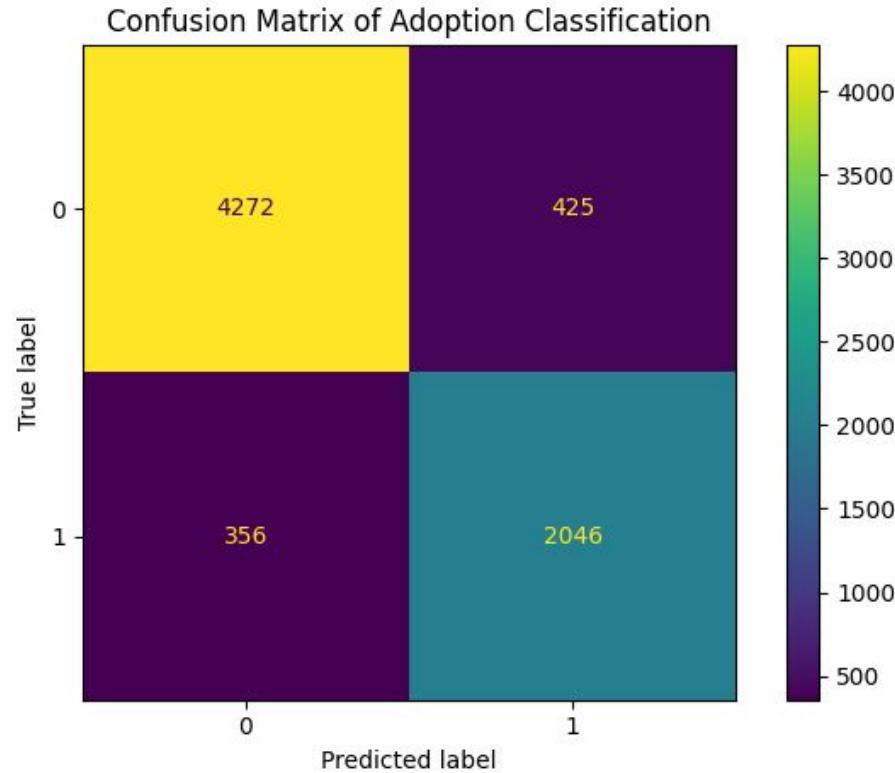
AdoptedProportion for each AgeYears (bin). Size shows count of records. The data is filtered on Outcome Type and AgeYears. The Outcome Type filter keeps ADOPTION and EUTH. The AgeYears filter includes values less than or equal to 17.

Adoption by Medical Issue Index



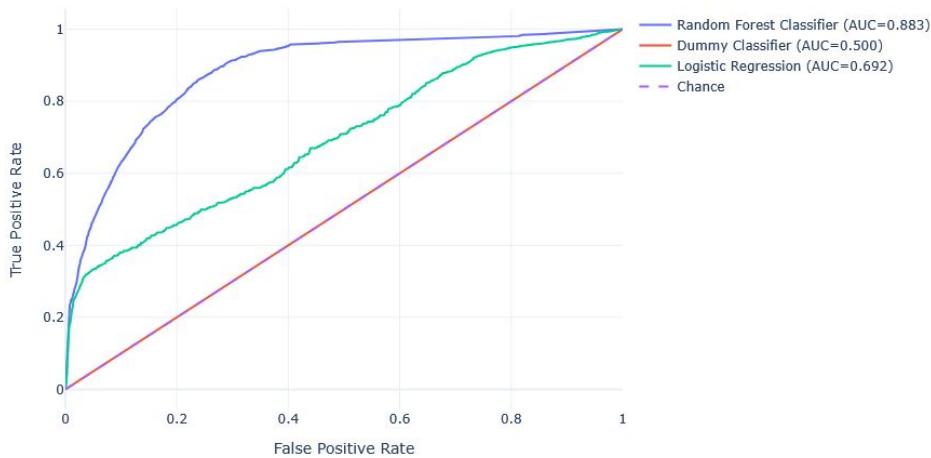
AdoptedProportion for each Intake Medical Issue Index. Size shows count of records. The data is filtered on Outcome Type, which keeps ADOPTION and EUTH.

Results of Classification

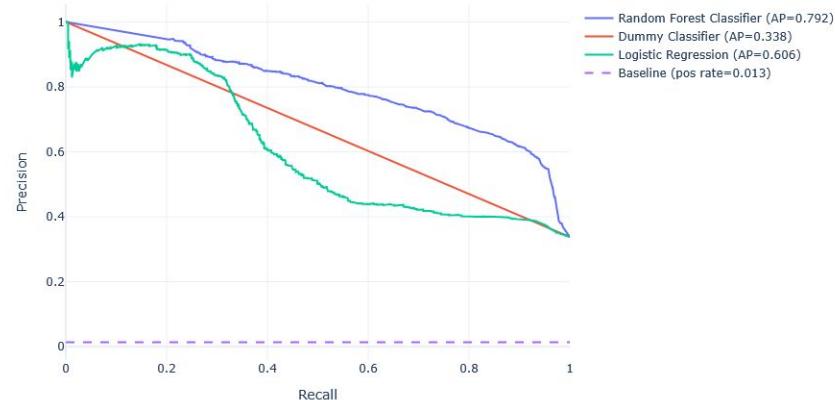


Results of Classification (Cont.)

ROC Curve Comparison

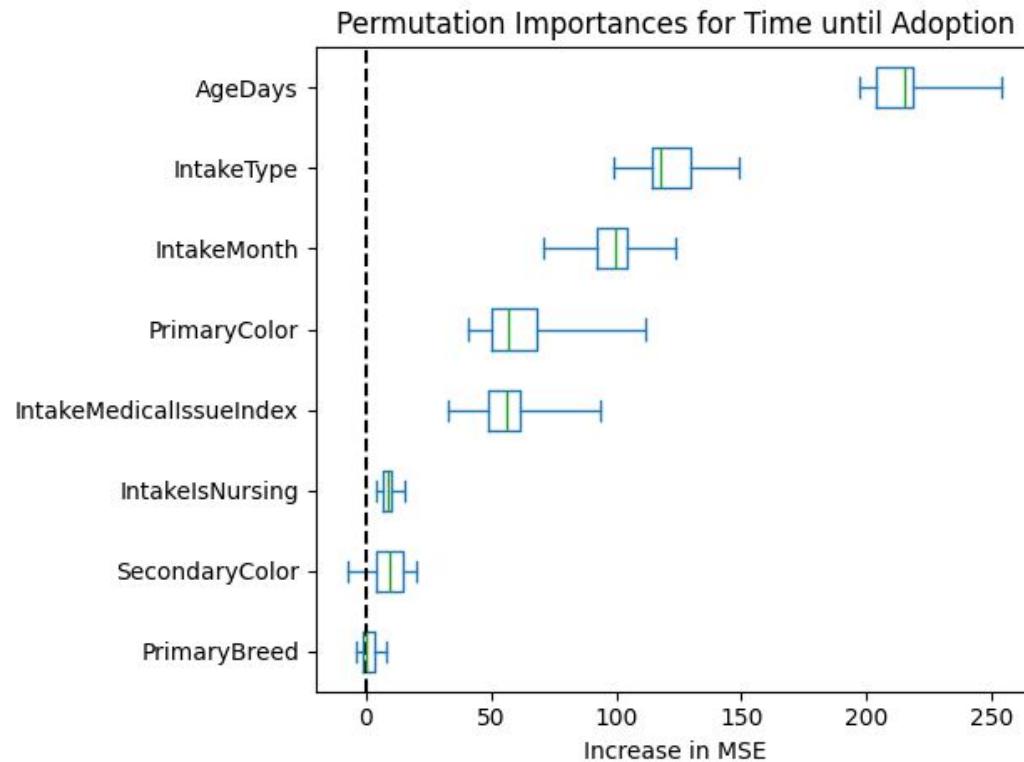


Precision–Recall Curve Comparison

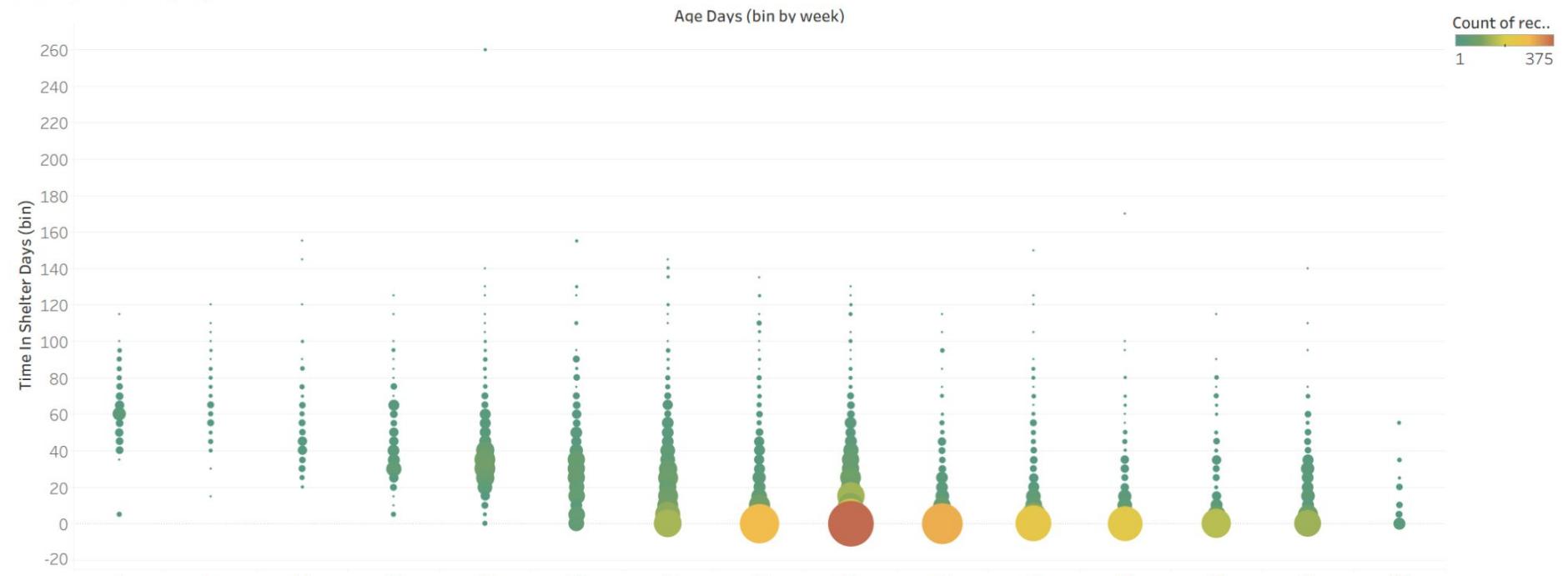


How long does it take
for a cat to be adopted?

Machine Learning on Regression!

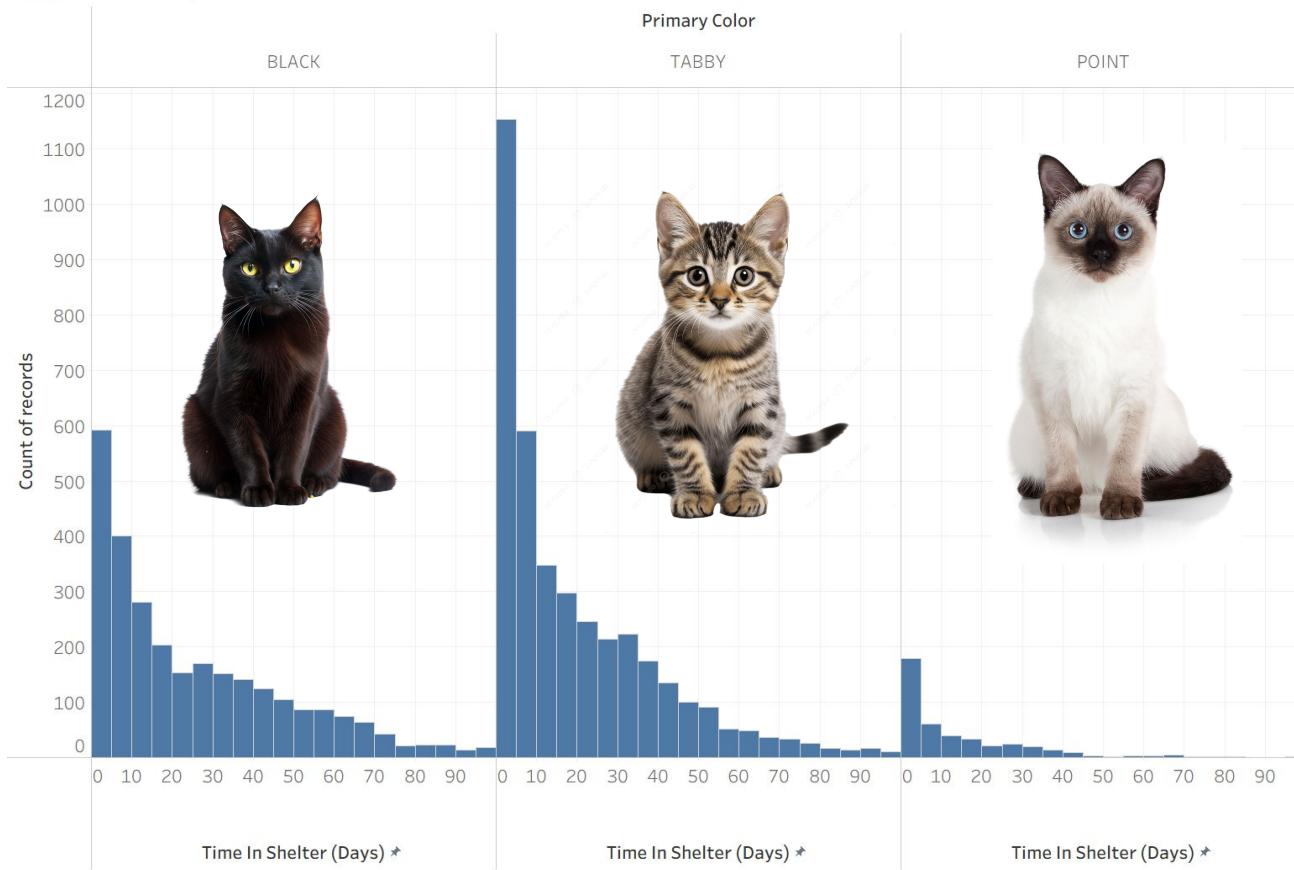


Time in Shelter by Age



Time In Shelter Days (bin) for each Age Days (bin by week). Color shows count of records. Size shows count of records. The data is filtered on Age Days and Outcome Type. The Age Days filter ranges from 0 to 100. The Outcome Type filter keeps ADOPTION.

Time in Shelter by Color



The trend of count of records for Time In Shelter Days (bin) broken down by Primary Color. The data is filtered on Outcome Type, which keeps ADOPTION. The view is filtered on Primary Color, which keeps BLACK, POINT and TABBY.

Thank you!