

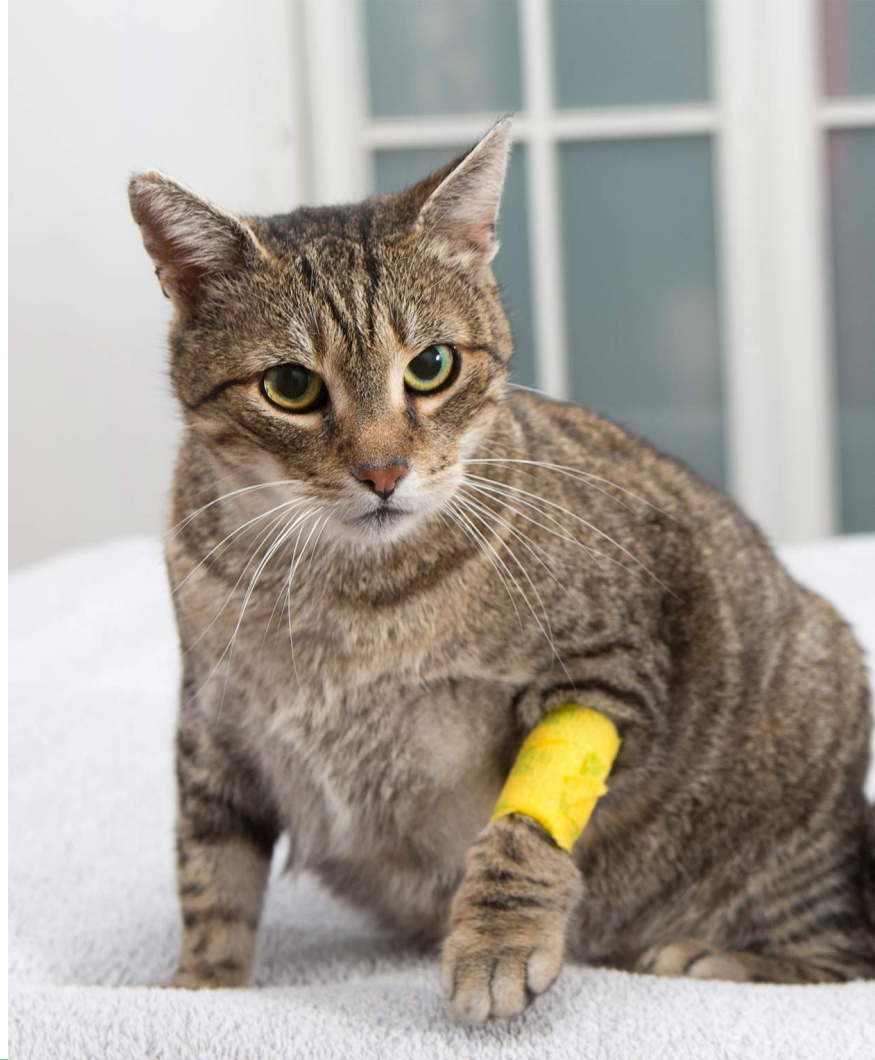
# Predicting Shelter Animal Outcomes

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# Motivation

- Data science for good
- Tool for shelters



# Workflow and tools

Data

Analysis

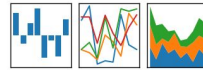
Model

Engineering

kaggle

pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



Flask



matplotlib



# Results

- .80 precision for non-adopted
- Less precise for adopted

High non-adopted precision

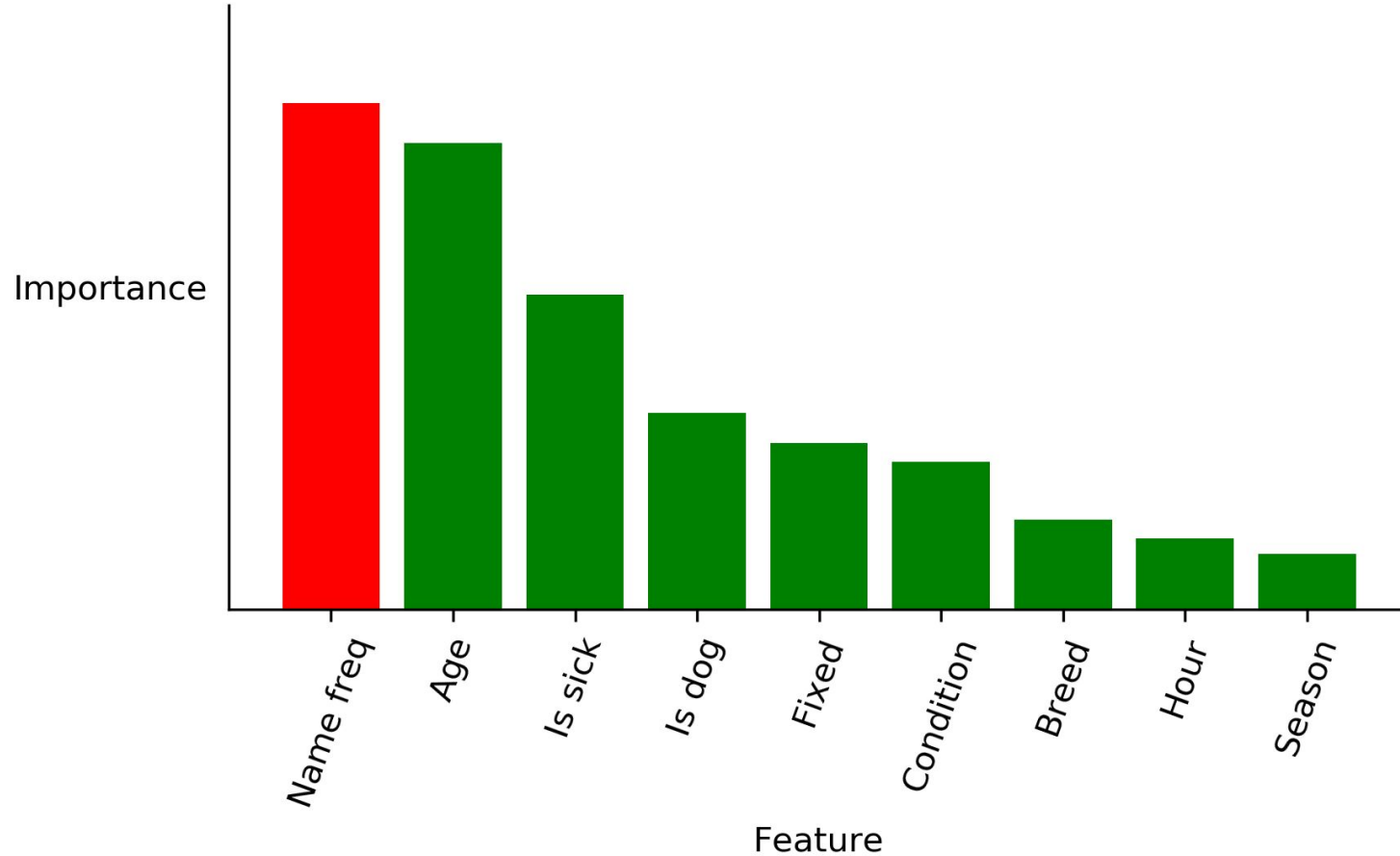
| Ground truth | Not adopted | Adopted    |
|--------------|-------------|------------|
|              | Prediction  | Prediction |
| Not adopted  | 0.80        | 0.20       |
| Adopted      | 0.32        | 0.68       |

# Conclusions

- Good at identifying less adoptable animals
- Name is most important



## Name frequency is most important feature





# Future Work

- Real world usage
- Weight data
- Days in shelter regression





# Thank you!



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