



WATER FOR ALL

Tanzania Well Performance





WATER FOR ALL

Agenda

- About our organization
- Past analysis
- Our model
- Feature Results
- Recommendations





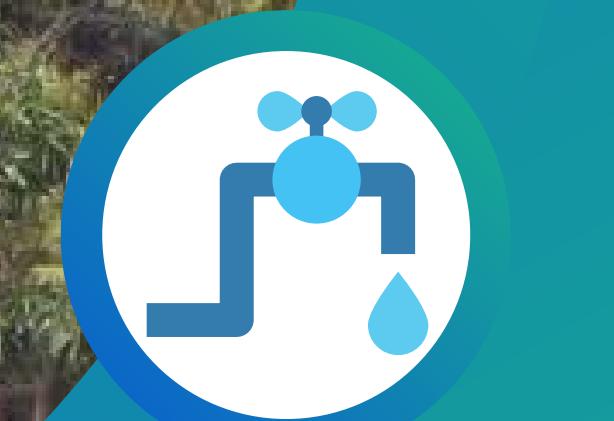
WATER FOR ALL

About Us

We are Independent contractors

working with governments to ensure safe access to water.

Our classification models predict on features that determine the functionality of wells.

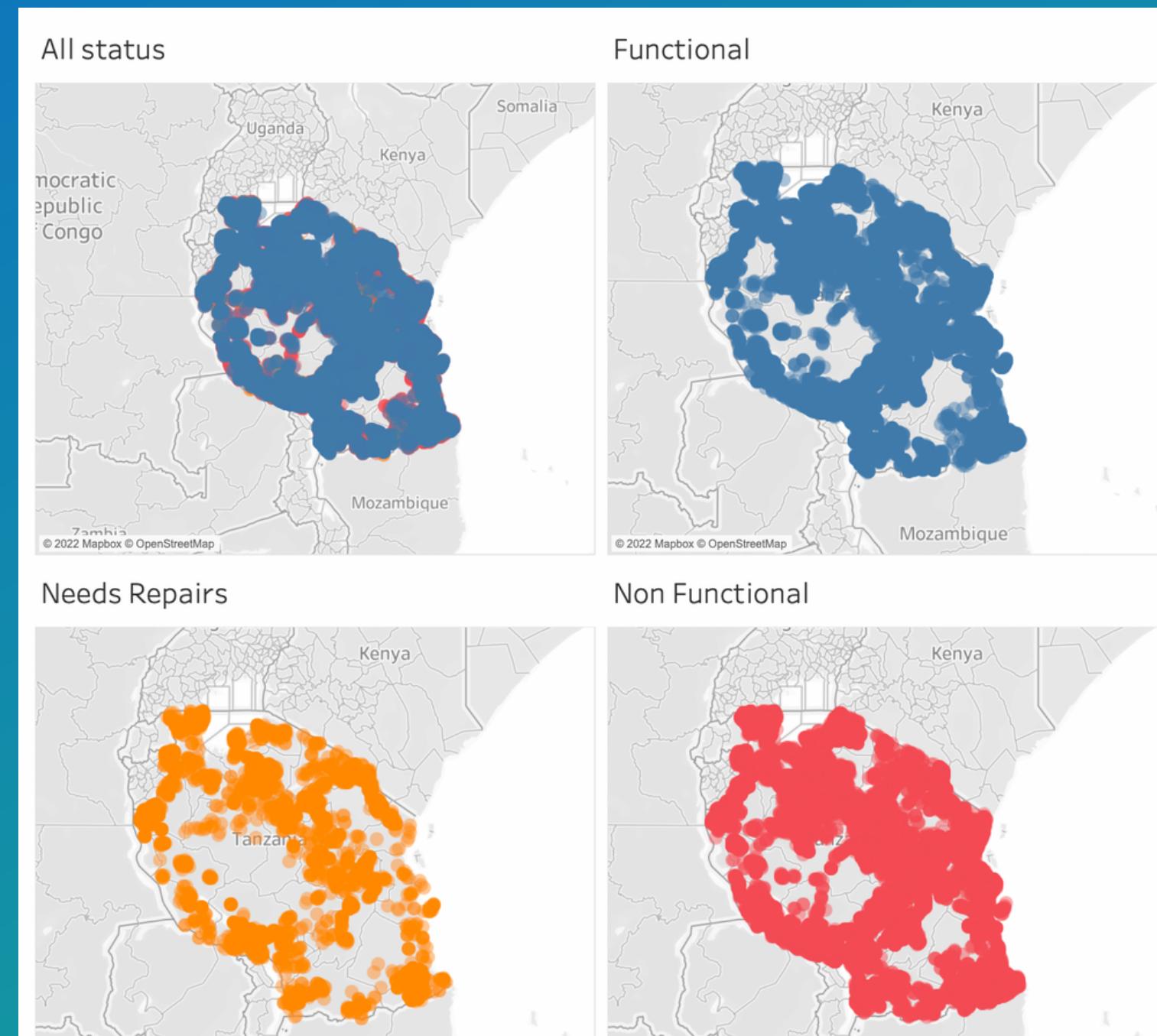
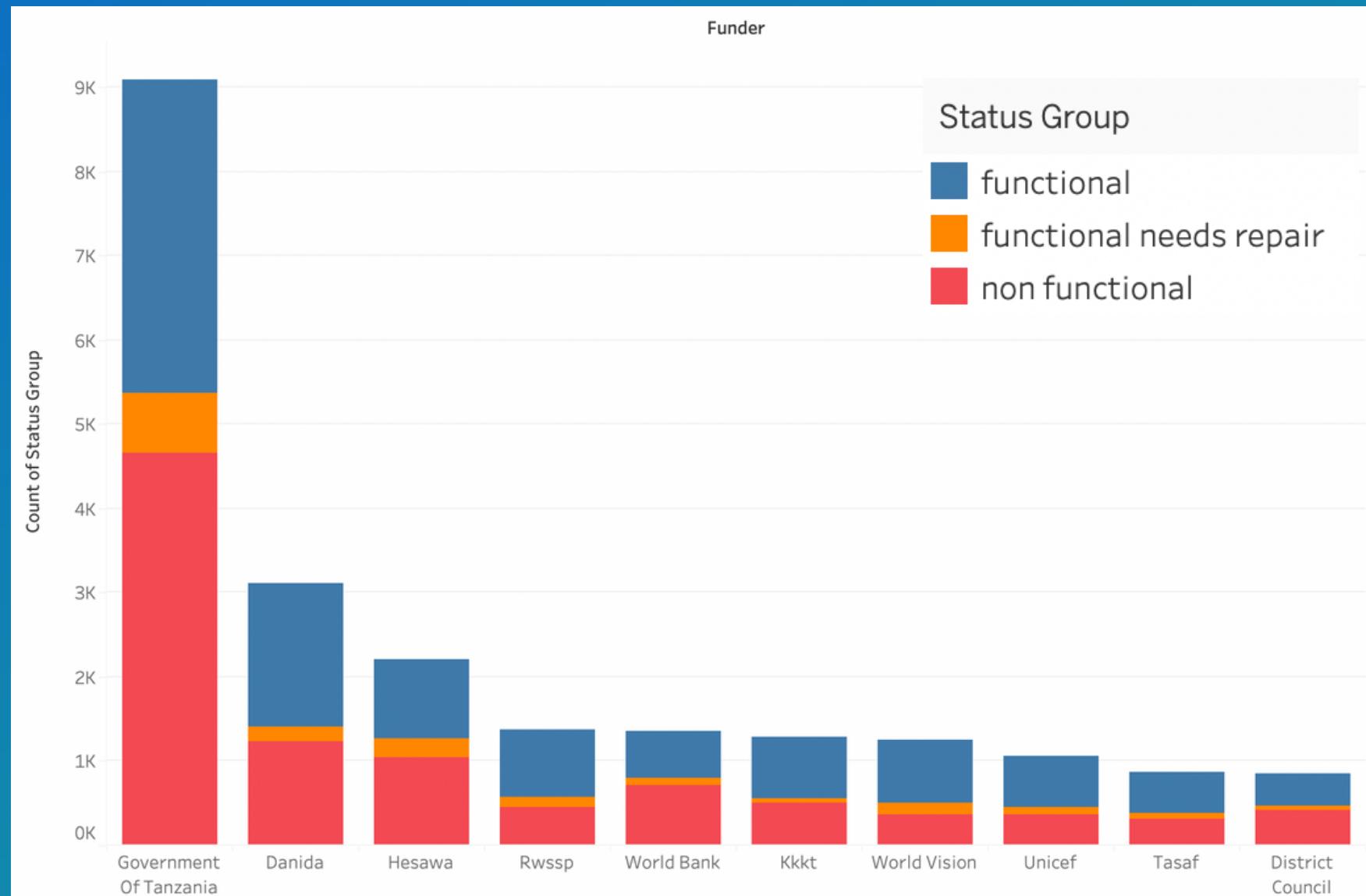




WATER FOR ALL

Inferential Analysis

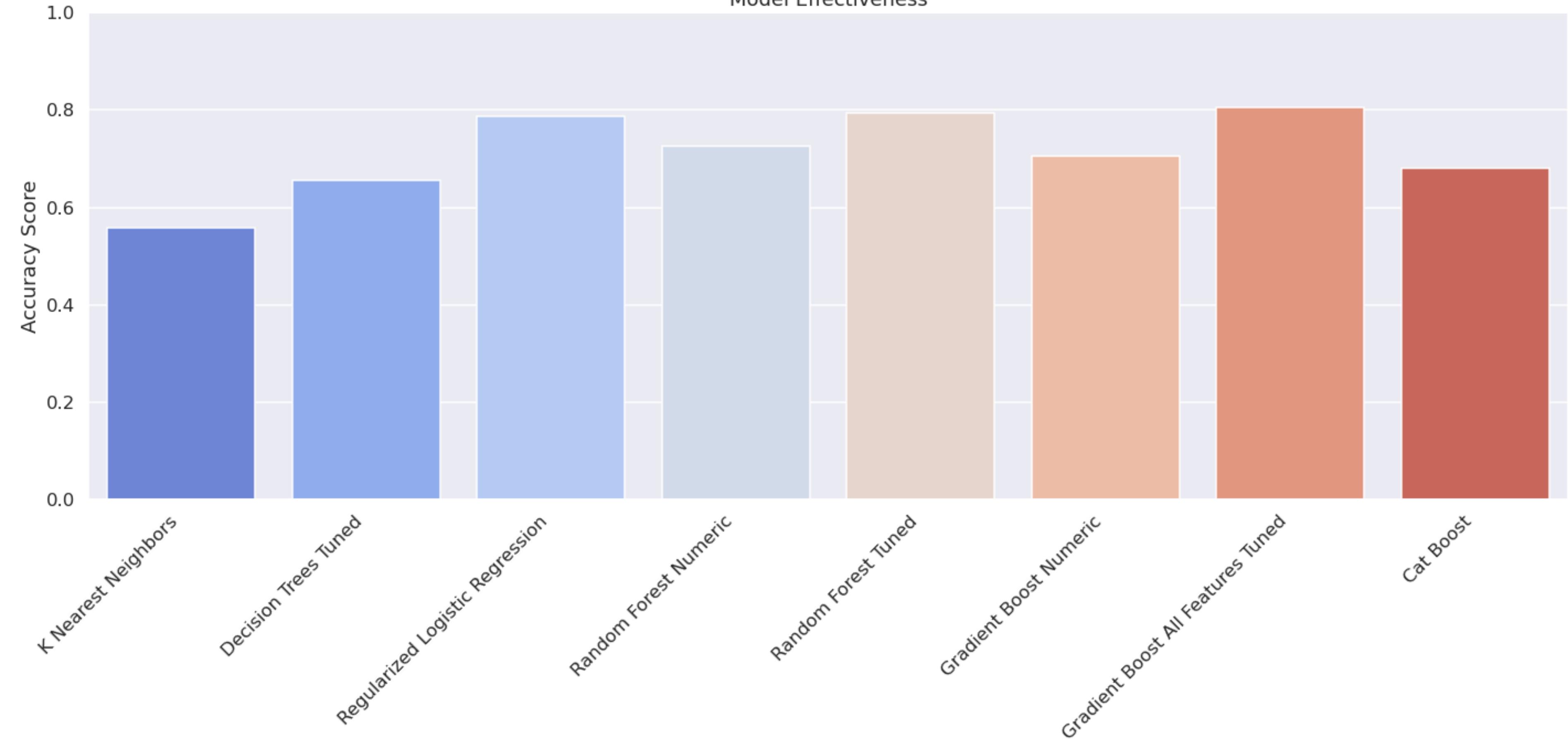
Previously, decisions were made inferentially based on funder information and location.





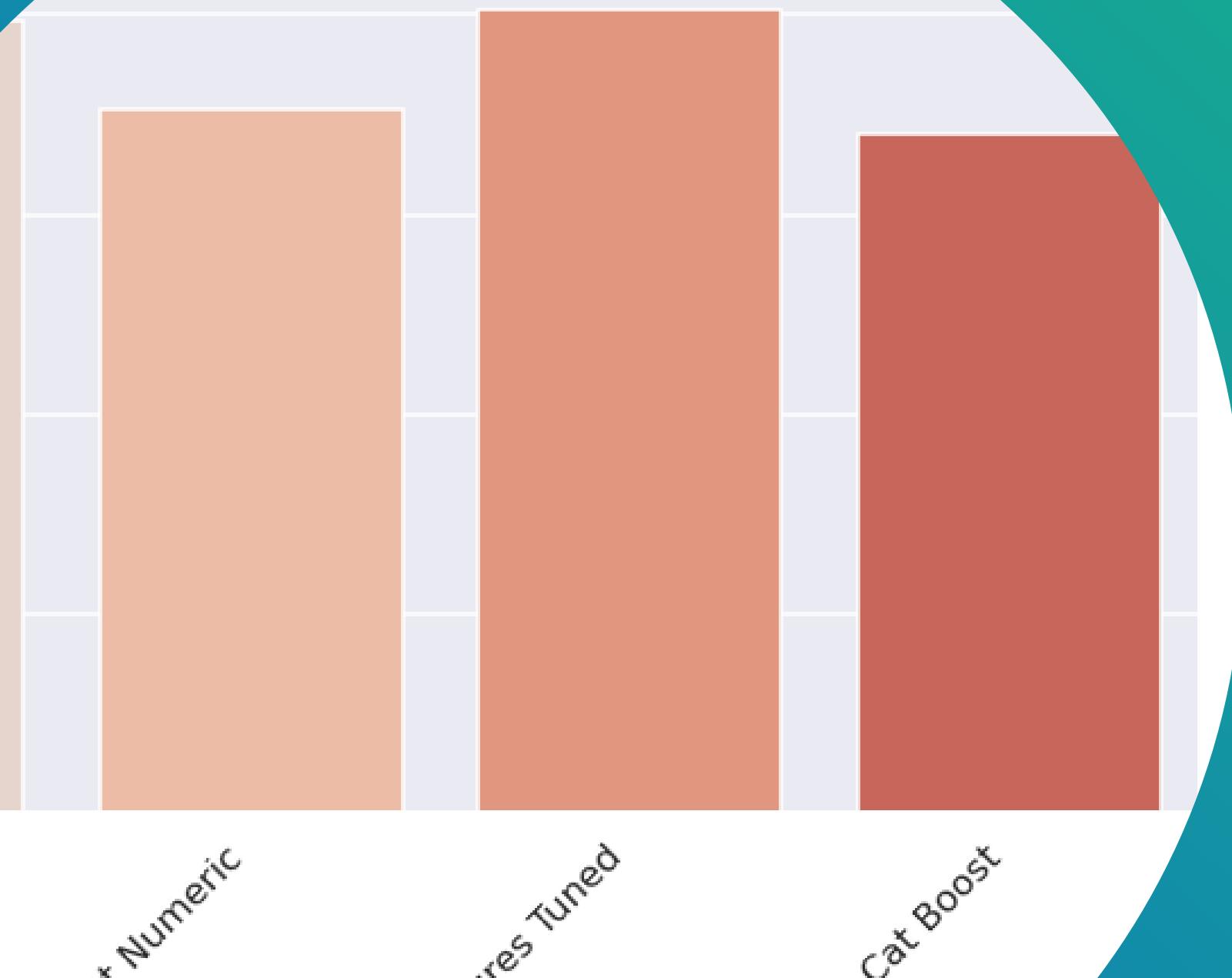
Model Performance

Model Effectiveness





WATER FOR ALL



Our Best Model

Our best model is a tuned Gradient Boost. It achieves an accuracy score of:

~81%

Now we can start looking at important features.



Evaluation

Our Model showed:

Waterpoint Type

- communal standpipe
- hand pump
- dam

Payment Type

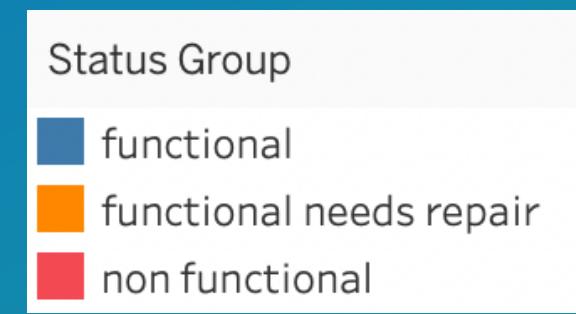
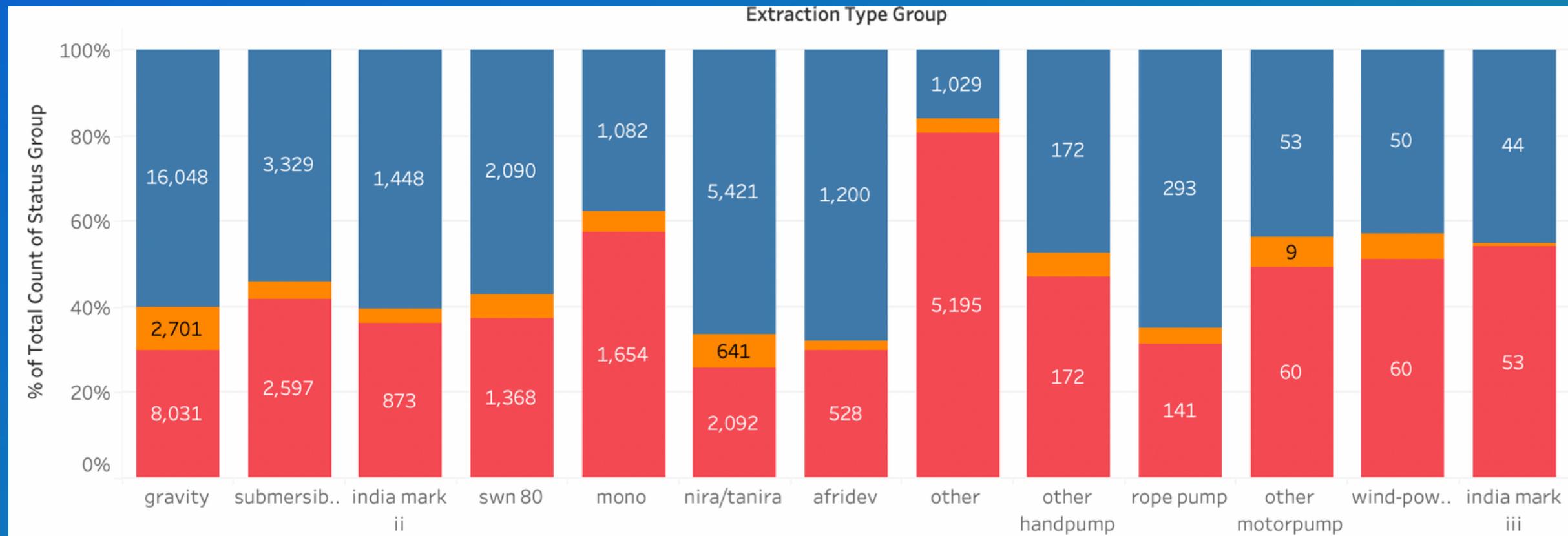
- per bucket
- monthly
- never pay

Extraction Type

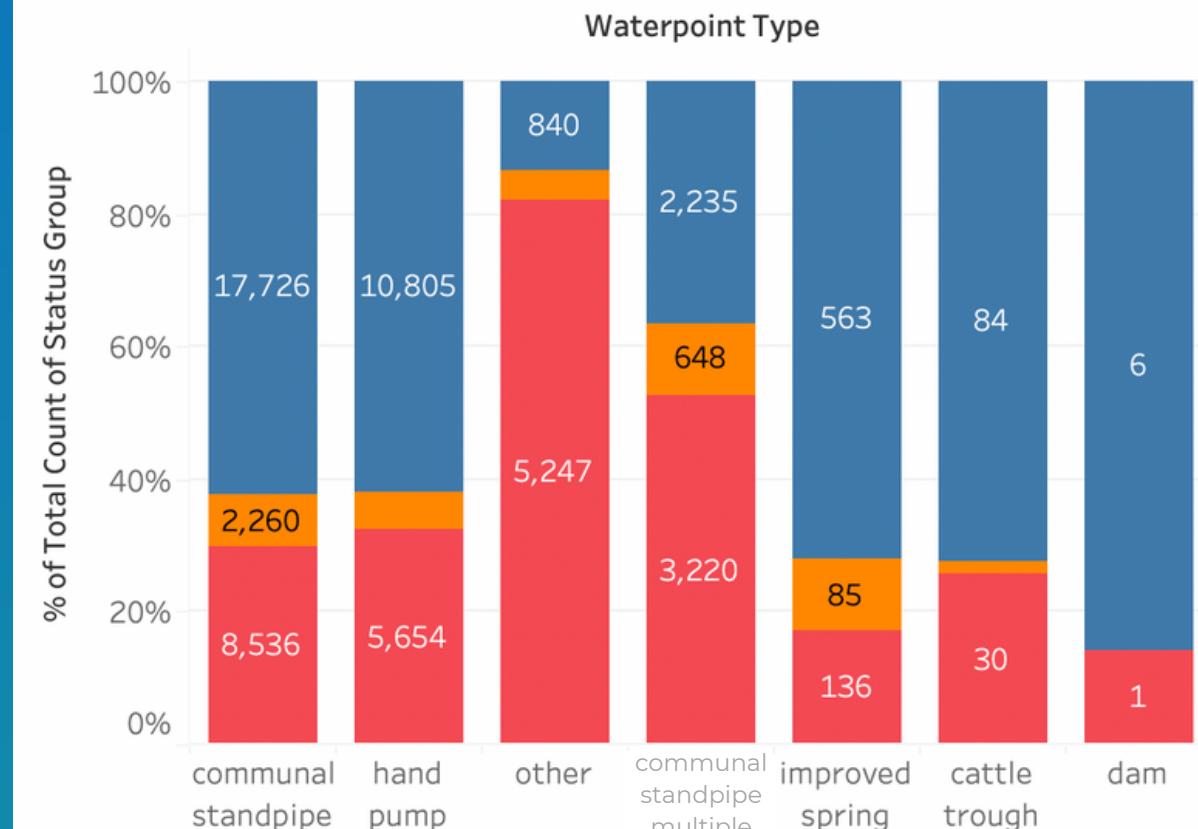
- gravity
- windmill



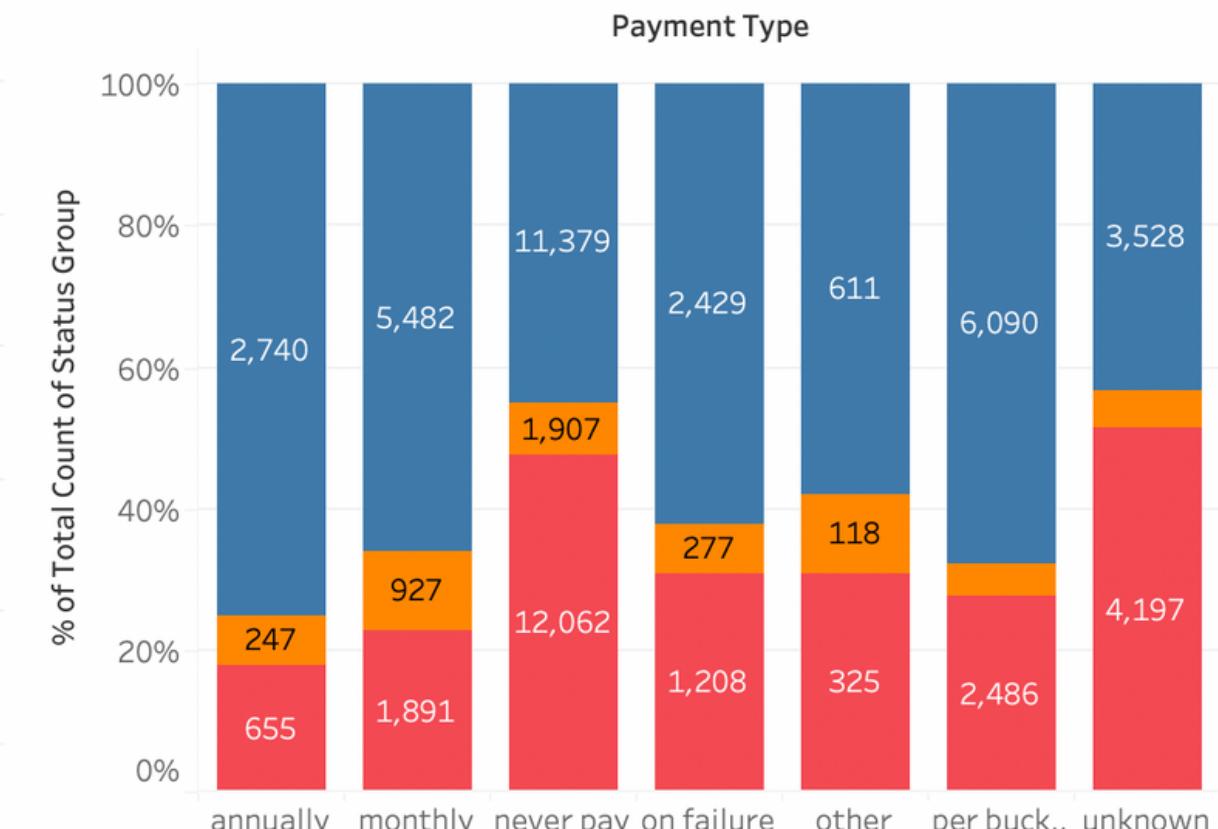
Feature Importance



Waterpoint Type

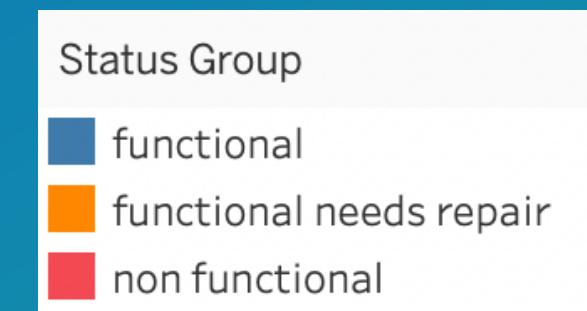
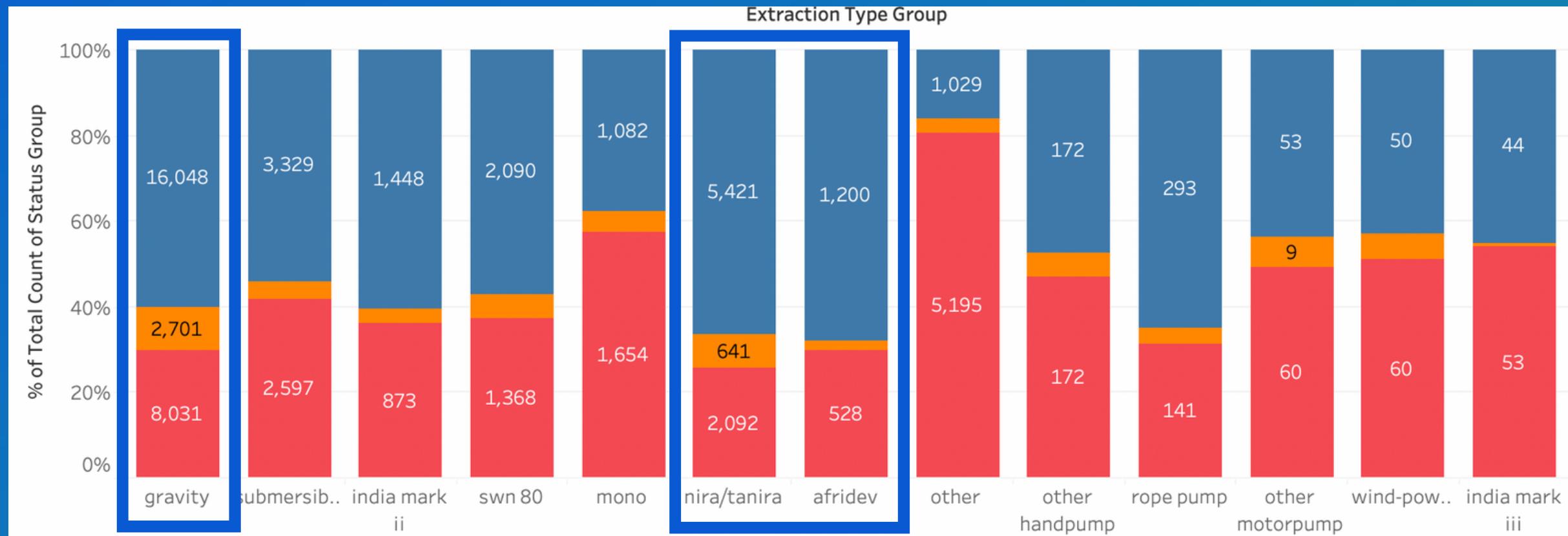


Payment Type

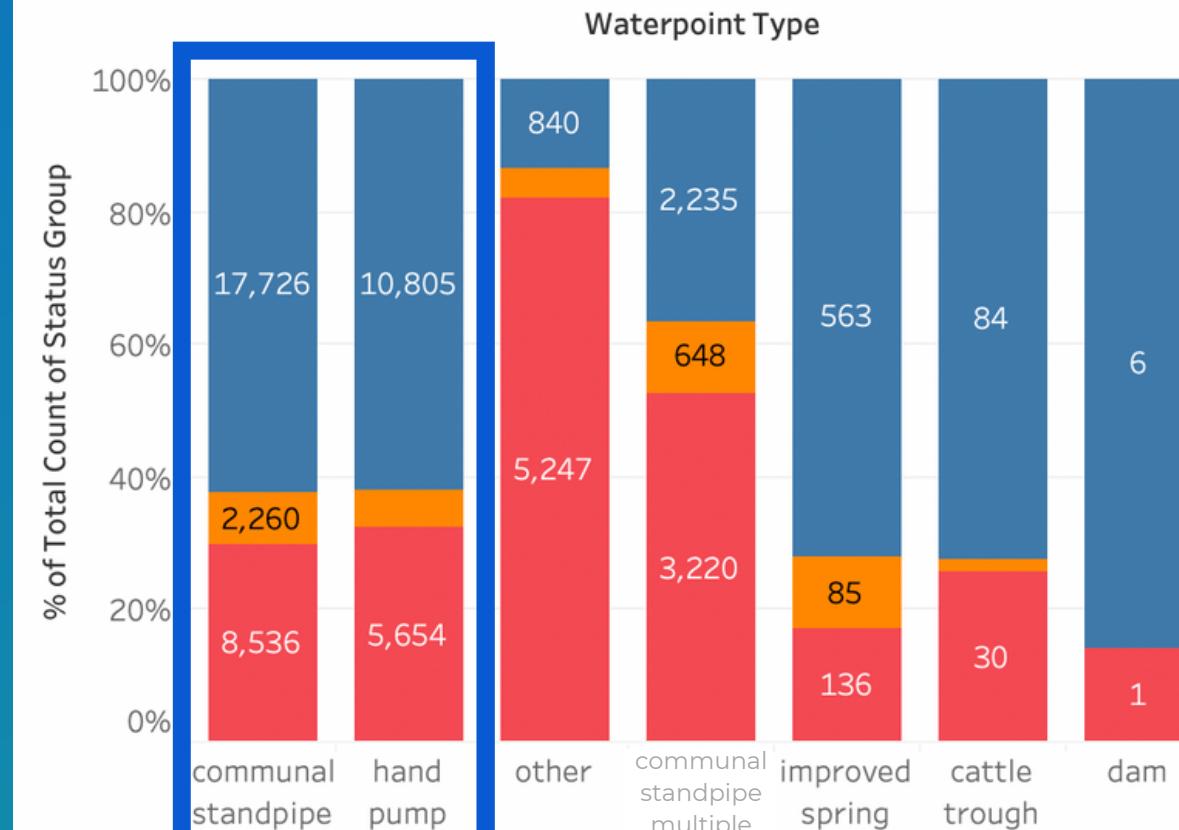




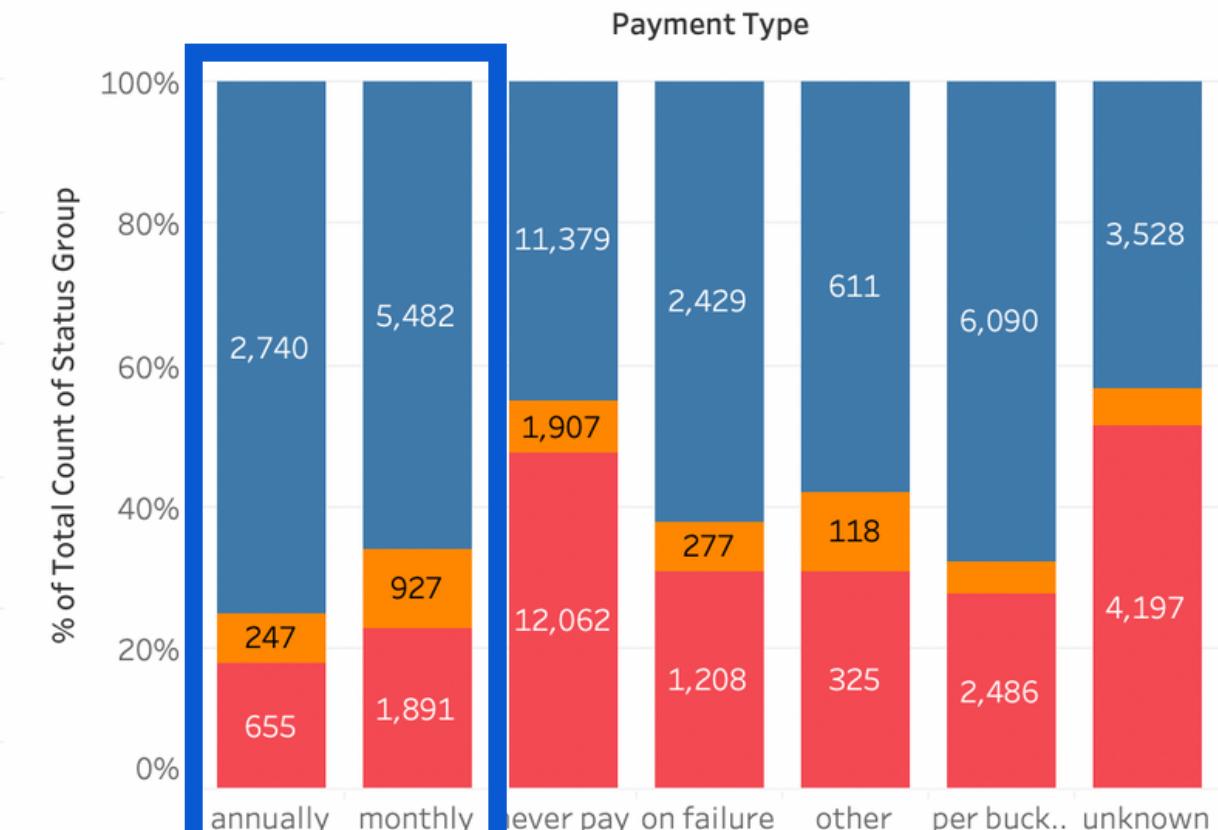
Feature Importance



Waterpoint Type



Payment Type



Thank you

Any questions?



Recommendations

Build and maintain:

- Gravity Wells
- Communal Standpipes

Charge for water:

- Annually

For more information
[Our Github](#)