Water Well Repair in Tanzania

Presenter: Brandon Sienkiewicz

Overview

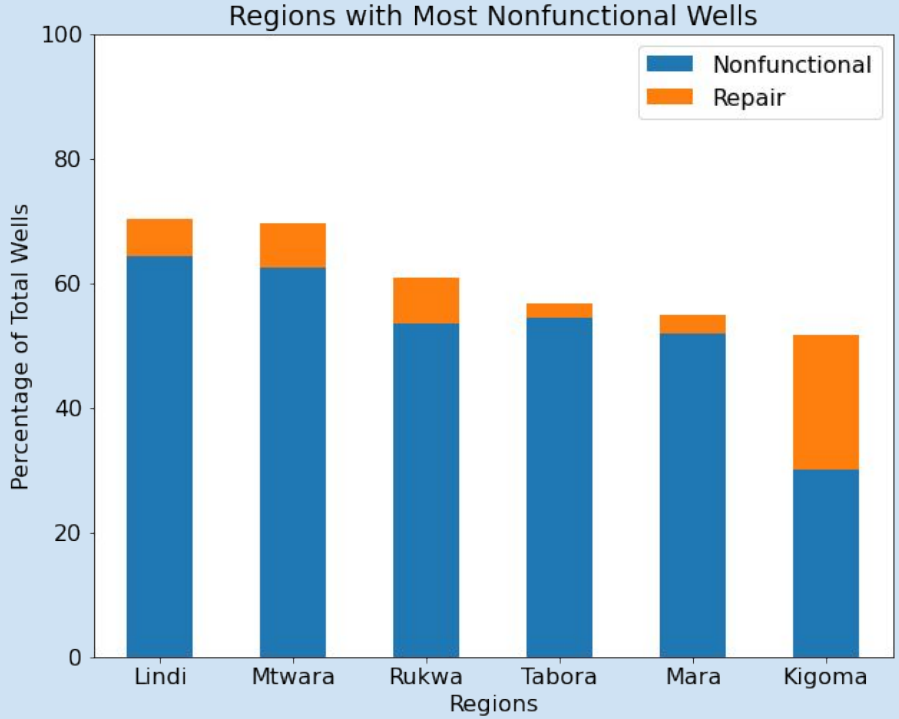
- Poor water infrastructure
- 38% - Nonfunctional
- 7% - In need of repair

Goals

- Predict nonfunctional/damaged wells
- Specific pump characteristics
- Action plan

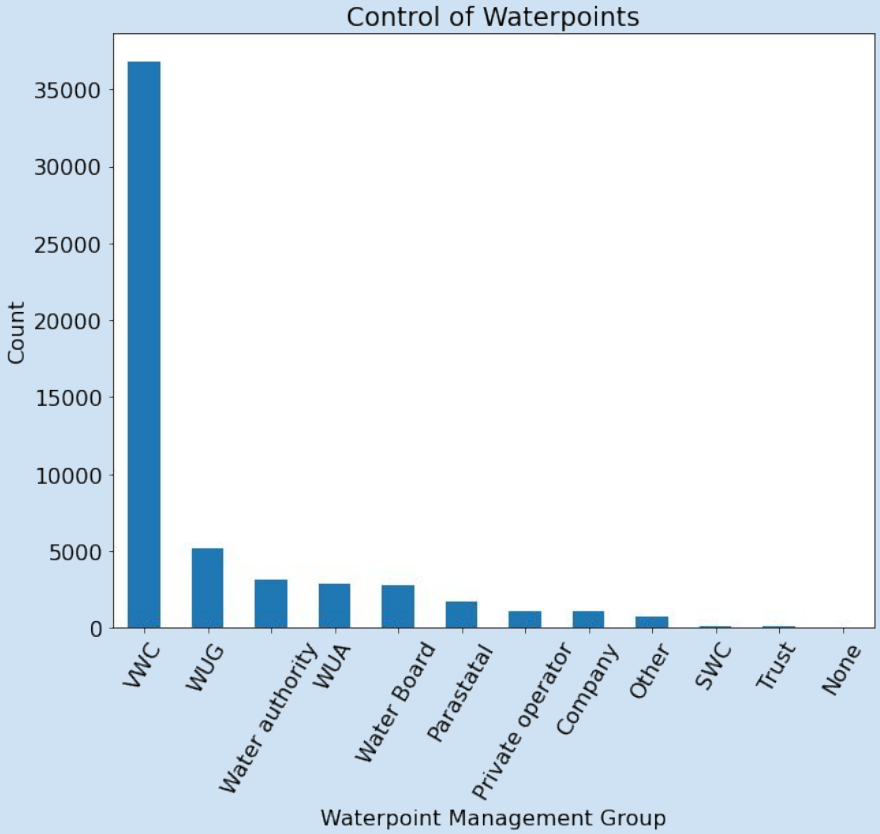
Regional Data

- Highest proportion nonfunctional
- Kigoma: High number repairs
  - Less resource intensive

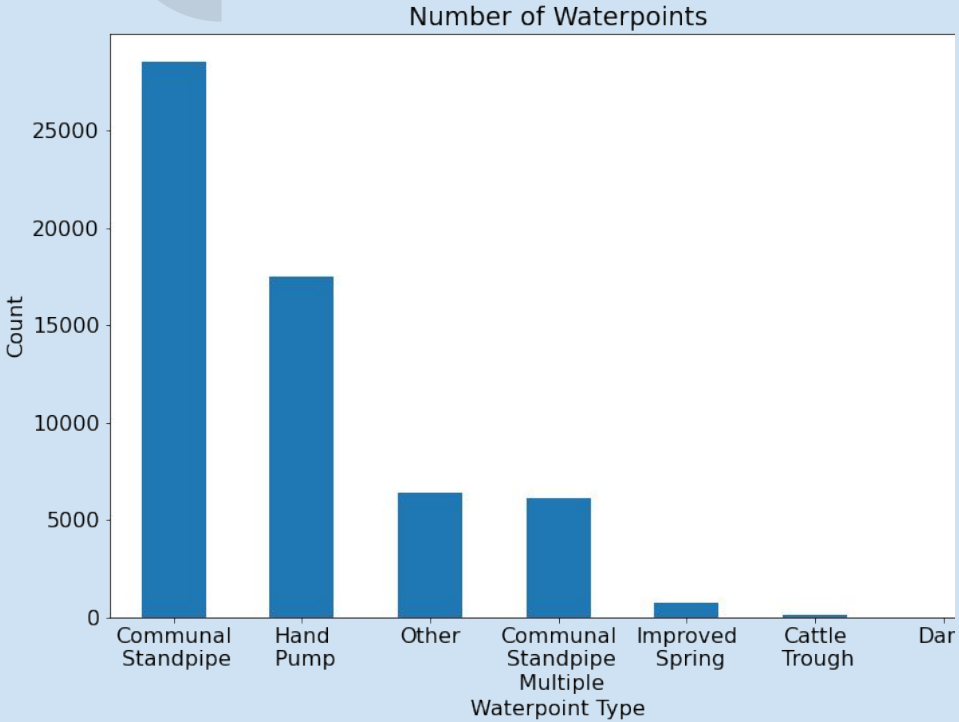


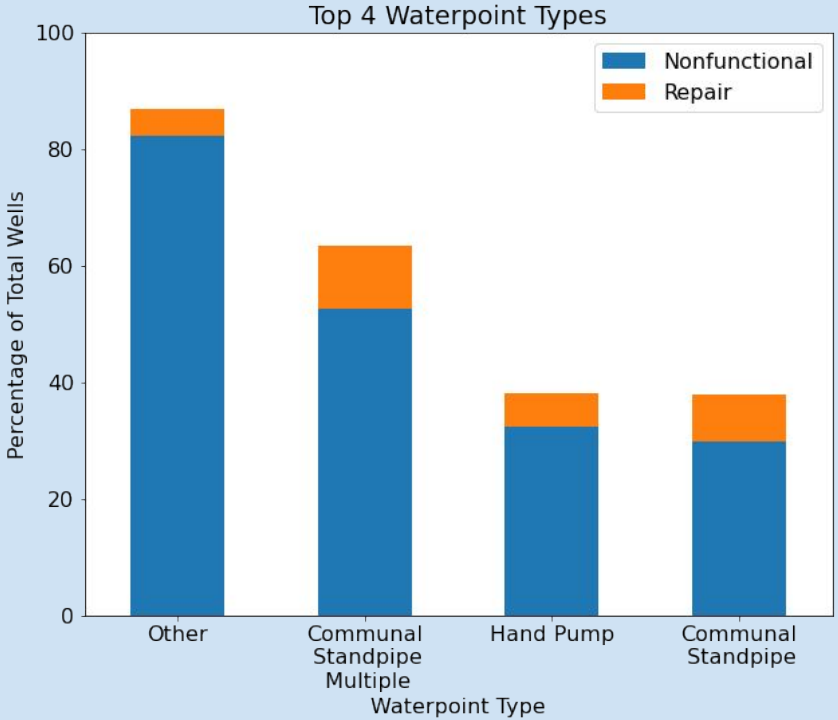
Waterpoint Management

- VWC (Village Water Committee)
  - Contact for permission/collaboration



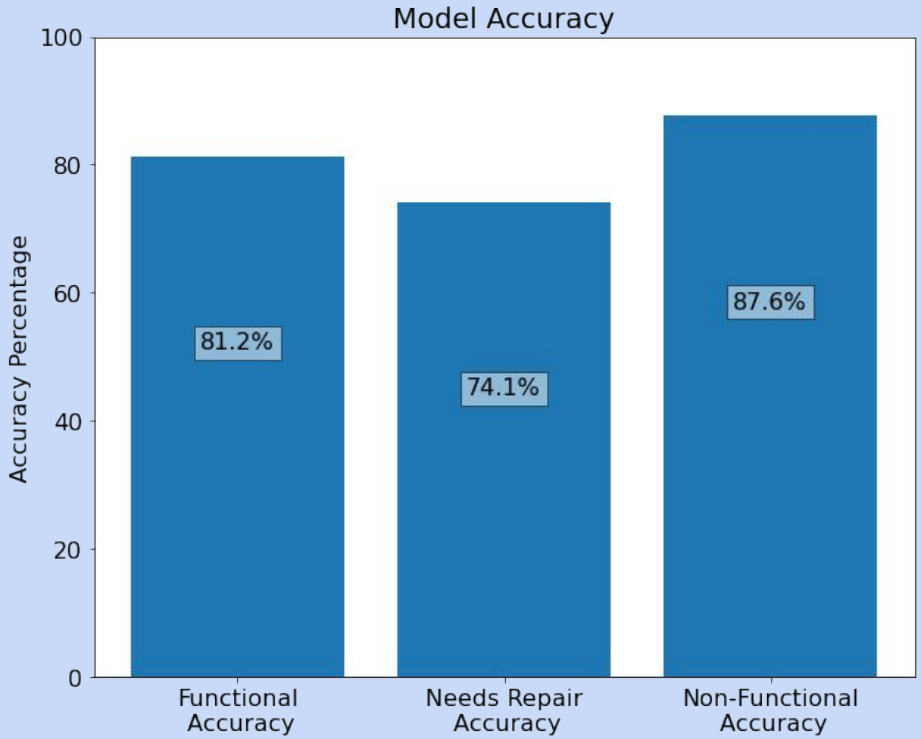
Waterpoint Info





How Did the Model Perform?

- Performs well predicting non-functional
- Fairly well predicting needs repair



Final Thoughts

- Recommendations
  - Focus regions
  - Contact with management (VWC)
  - Communal standpipe and hand pumps
- Moving Forward
  - Utilize model for predictions
  - Action plan based on recommendations

Questions?

Brandon Sienkiewicz

bmsienk@outlook.com

https://github.com/bmsienk

Project Link

https://github.com/bmsienk/Tanzanian-Water-Pumps-Project3