

Tanzania Water Wells



Meeting Agenda



- 1) Case Problem
- 2) Solution Benefits
- 3) Solution Process
- 4) Results
- 5) Conclusions and Recommendations.

Case Problem

The Government of Tanzania is interested in an algorithm that helps in:

- I. Finding out the water points in need of repairs and those that have completely failed.
- II. Identifying patterns in water points that don't function as desired.



Solution benefits



How would successfully creating the algorithm help?

1. Easily determine water points that are in need of repairs and those that have completely ceased functioning.
2. Identify patterns in non-functional water points and guide against them when building wells in future.
3. Raise the living standards of the people of Tanzania.

Solution Process

- The original dataset had a lot of unnecessary. So I identified 17 features that are appropriate for solving the problem.
- After that I did some modeling to create the required algorithm.

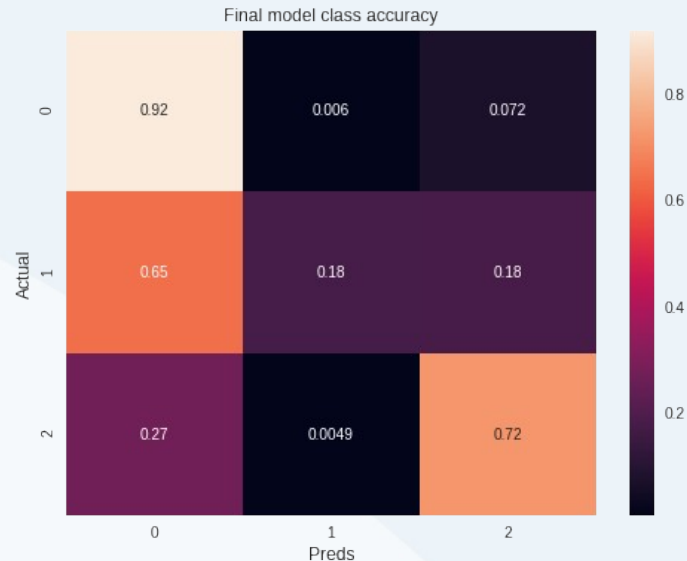


Results



The final models accuracy:

- 0 - Functional
- 1 - Functional needs repairs
- 2 - Non-functional



Conclusions & Recommendations

- I deem the model good to use in solving the problem. The primary focus of the Tanzanian government is functional and non functional water points.
- A specific format and language should be used when filling in data to the database.
- Other should not be used as an extraction method.





Q & A

Thank You!!

