Quenching Tanzania

Ensuring functional water wells for all



Tanzania's Water Crisis

40 billion

In Sub-Saharan Africa, women and girls spend an estimated 40 billion hours a year collecting water.

16 million

Out of its population of 59 million people, 16 million people (28%) lack access to safe water.

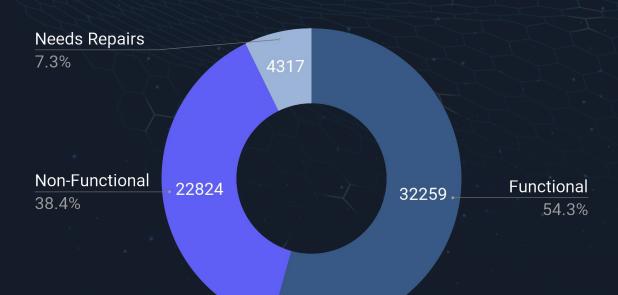


Objective

Bring you a model that predicts **well functionality** with utmost accuracy.

Data:

60,000 records of water wells in Tanzania



Process

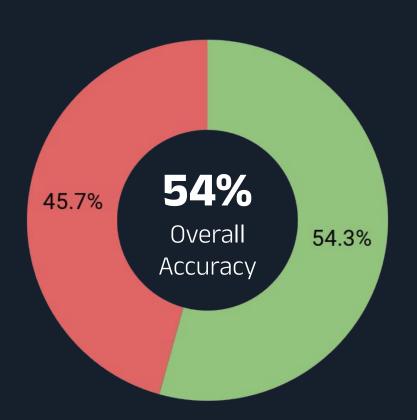








Basewell Beacon

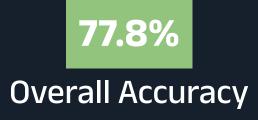


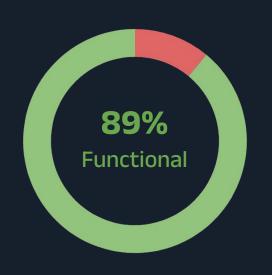
Functional: 100%

Needs Repairs: 0%

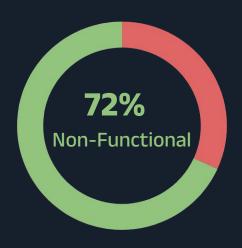
Non-Functional: 0%

TriWell Predictor

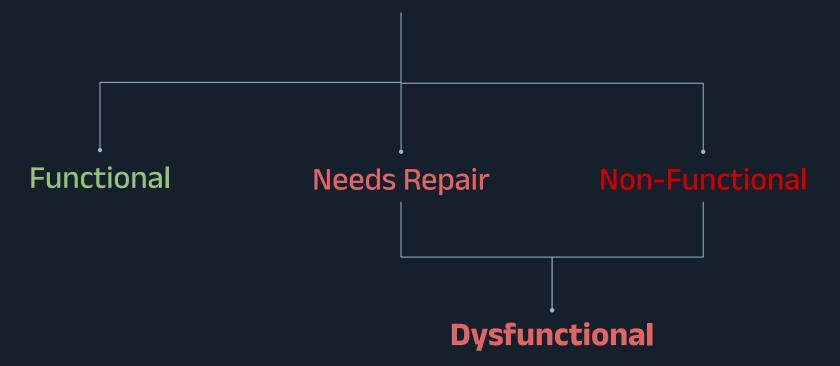




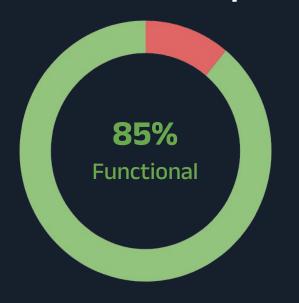


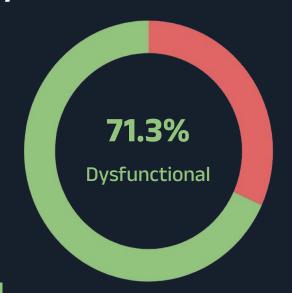


Previous data



AquaClassify Pro

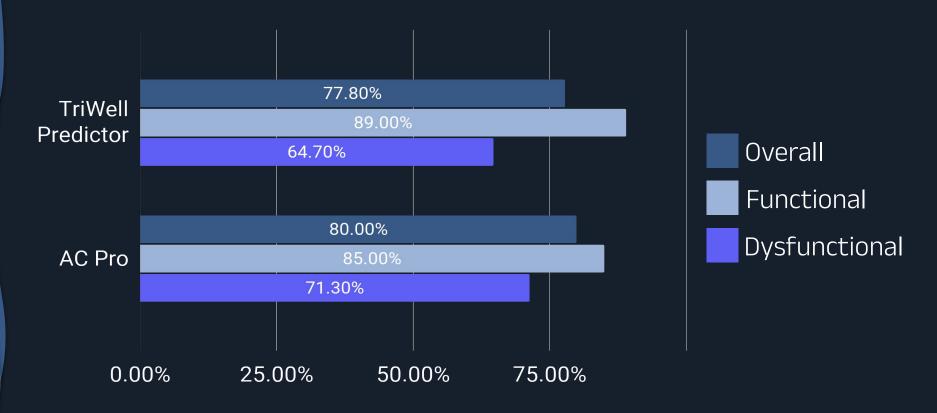




79.4%

Overall Accuracy

Model Comparison



Accuracy

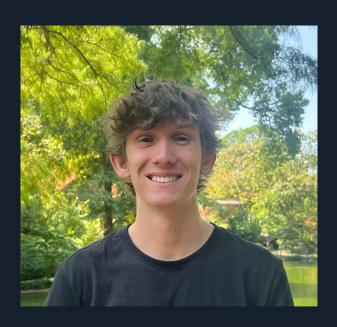
Recommendations

	Overall Accuracy	Functional Accuracy	Dysfunctional Accuracy	Identifies "Needs Repair"
TriWell Predictor	77.8%	89%	64.7%	Yes
AquaClassify Pro	79.4%	85%	71.3%	No

Next Steps:

- Dive deeper into data to find more specific correlations.
- Use more advanced predictive modeling techniques to further maximize accuracy.

Thank You!



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Heath Jones

Sources

Information:

- https://lifewater.org/water-crisis/
- https://water.org/our-impact/where-we-work/tanzania/

Photos:

• https://lifewater.org/blog/tanzania-water-crisis-facts/