

Classification for Water Pumps in Tanzania

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Pump it Up: Data Mining the Water Table

HOSTED BY DRIVEN DATA



Can you predict which water pumps are faulty?

Using data from [Taarifa](#) and the [Tanzanian Ministry of Water](#), can you predict which pumps are functional, which need some repairs, and which don't work at all? This is an intermediate-level practice competition. Predict one of these three classes based on a number of variables about what kind of pump is operating, when it was installed, and how it is managed. A smart understanding of which waterpoints will fail can improve maintenance operations and ensure that clean, potable water is available to communities across Tanzania.

Main Goals



Accuracy!



Submissions

BEST

0.8031

CURRENT RANK

1993

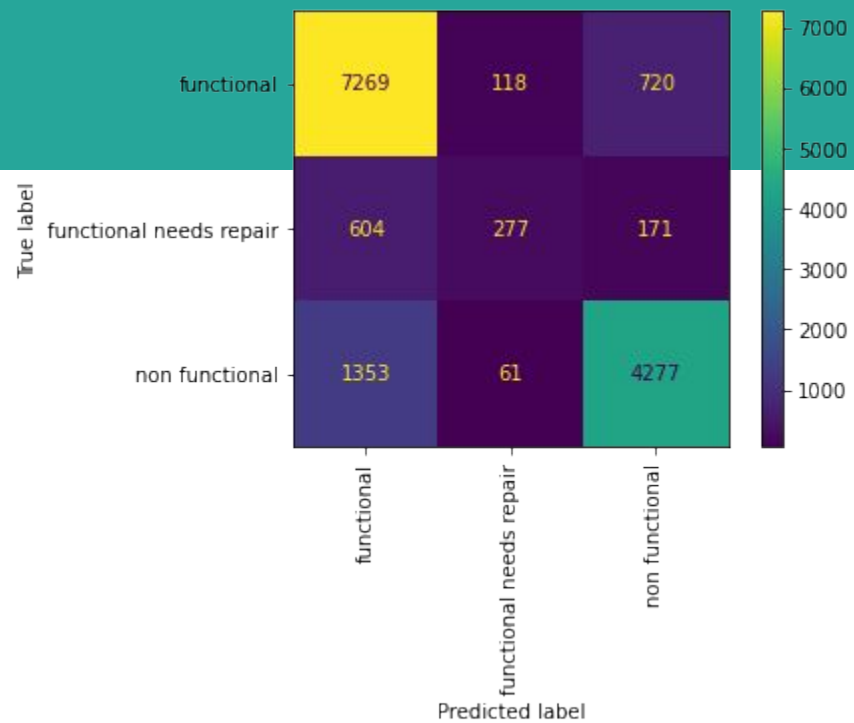
COMPETITORS

10553

SUBS. MADE

0 of 3

Diving a Little Deeper....



functional

functional needs repair

non functional

Future Research

Tweek model to reduce the worst kind of errors

More research on the main factors that contribute to conditions of water pumps

Recommendations

- Use the model to make predictions, but don't solely rely on it
- Be aware of the type of errors that are most common
- Always be on the lookout for ways to gather more data/characteristics - for the most part, more information will almost always increase accuracy throughout machine learning models

Thank You!

