Tanzanian Water Problems

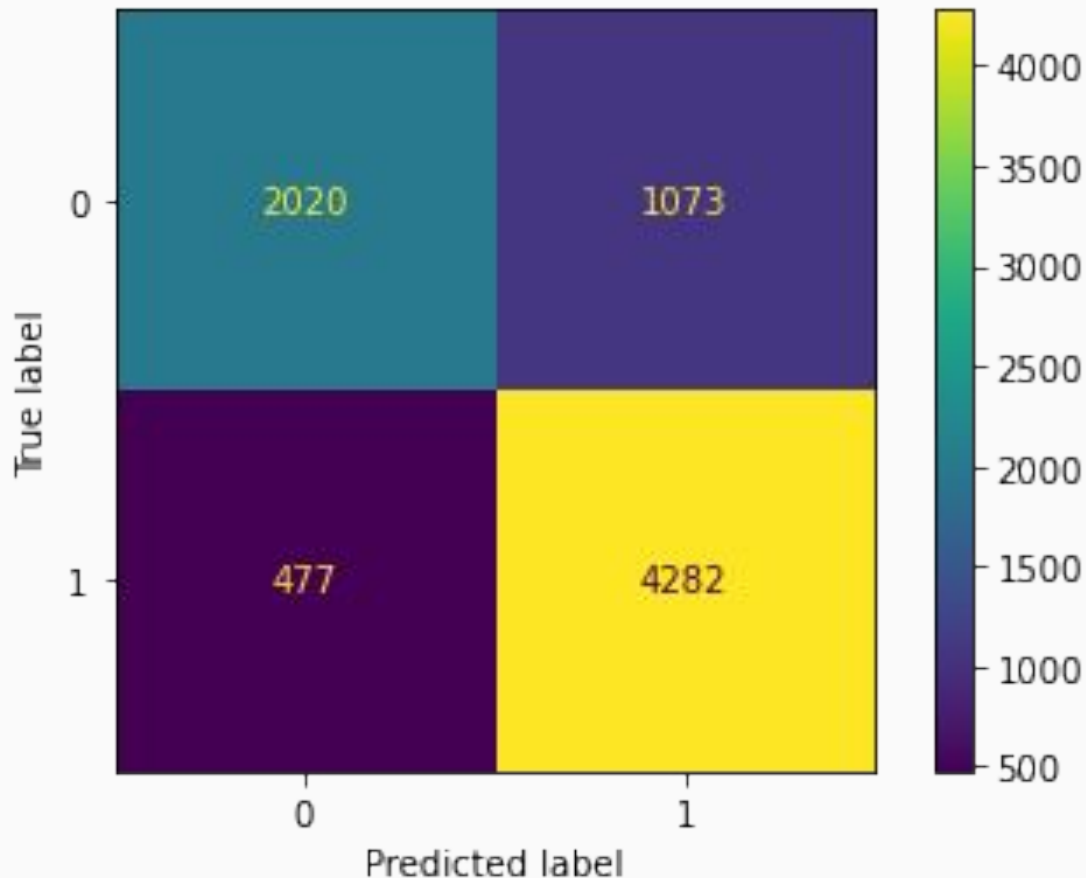Author: Ethan Helder

Overview and Business Problem

- Tasked through DrivenData.org.
  - From Taarifa and the Tanzanian Ministry of Water.
- Predict functionality of waterpoint.
- Positives of being able to predict which water points needs repairs.

Data and Methods

- From competition so perfect correlation.
- Info on location, type, how its being managed and when it was installed.
- Analyzed all value counts.
- Decided on a simple Classifier.

Results

- 80% accurate
- More false positives than false negatives
- Most Important variables
  - Quantity
  - Type
  - Year built
  - Location
- To note:
  - Changed from ternary to binary

Final point

The Tanzanian Ministry of Water can use this model to accurately predict which water points will need repairs.

Thanks!

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