

Tanzanian Water Wells

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Agenda

- Business Overview
- Data
- Model
- Analysis

Business Overview

Stakeholder:

- Tanzanian Government
- Citizens of Tanzania

Business Problem:

- Functionality of wells



Data

Data collected: 2002 - 2013

Location: Tanzania

Number of wells: 59400

Targets:

Functional — Non-functional — Functional, needs repair

Models

Baseline Model:

Recall: 57%

F1-Score: 41%

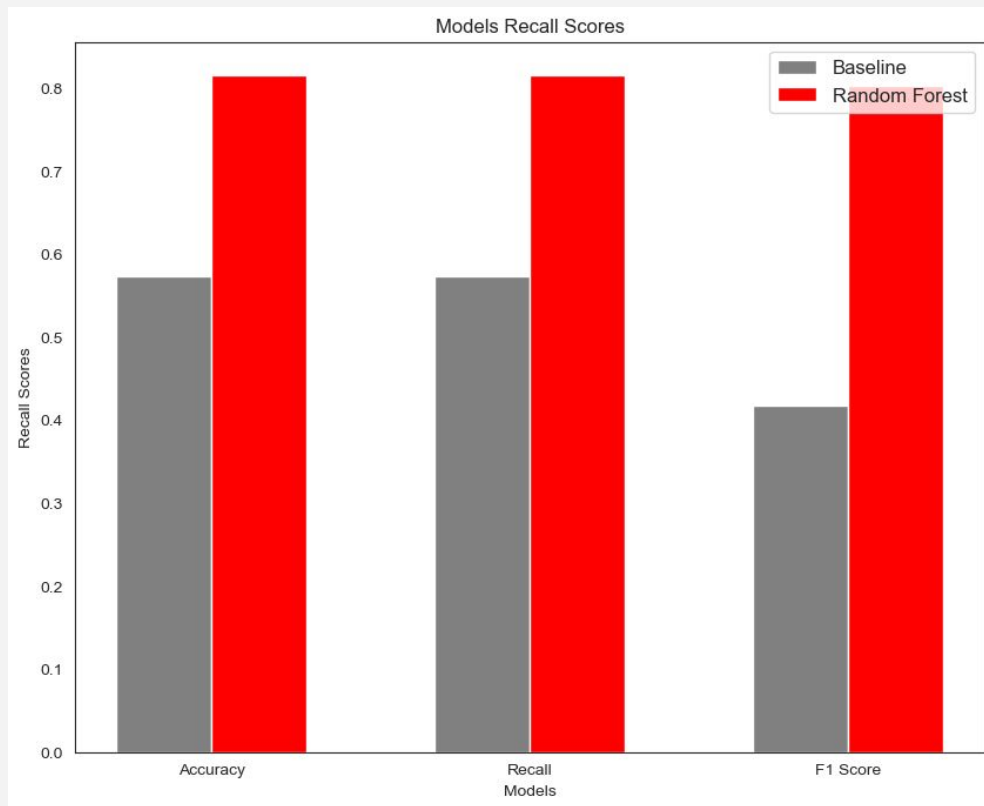
Accuracy: 57%

Final Model:

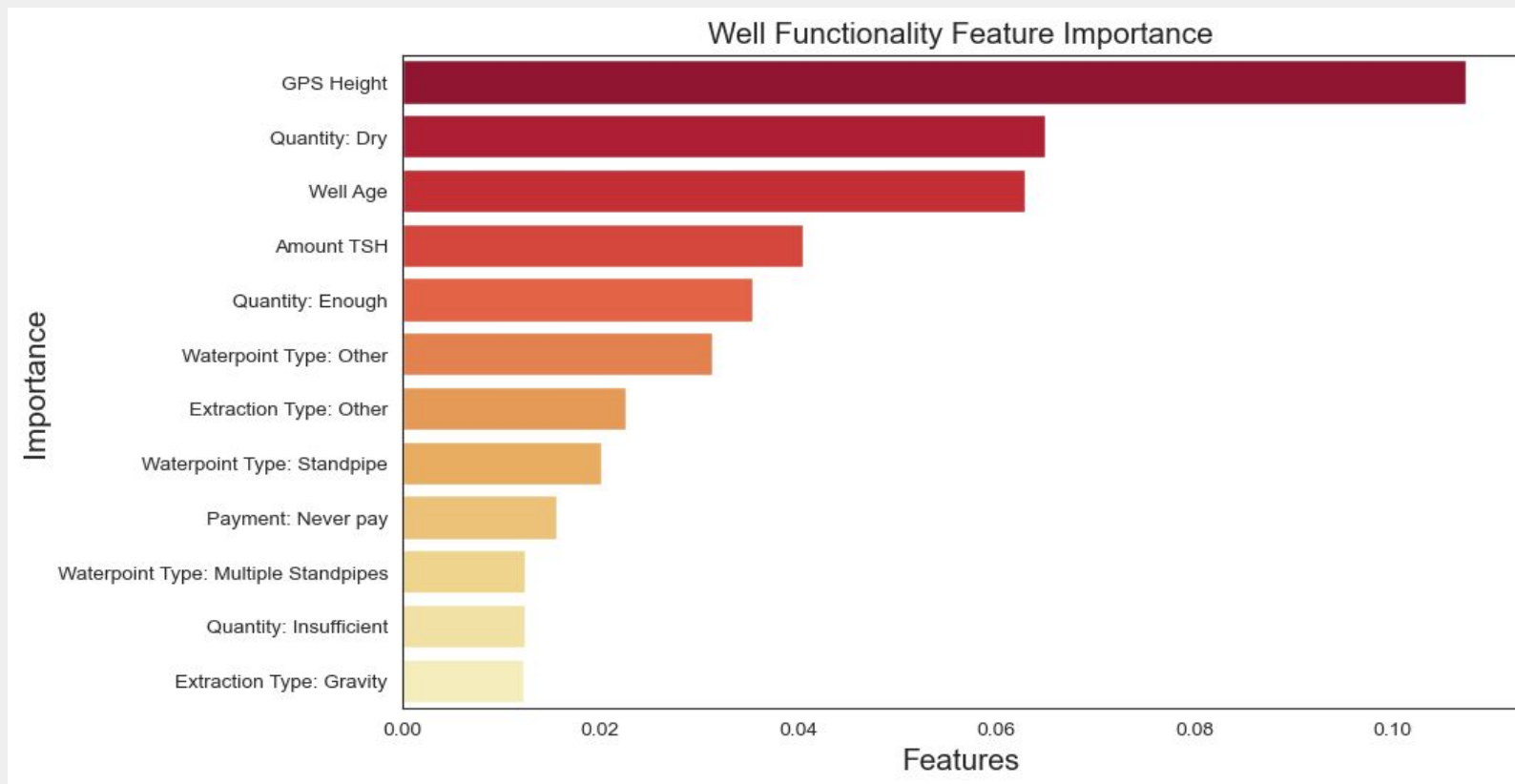
Recall: 81%

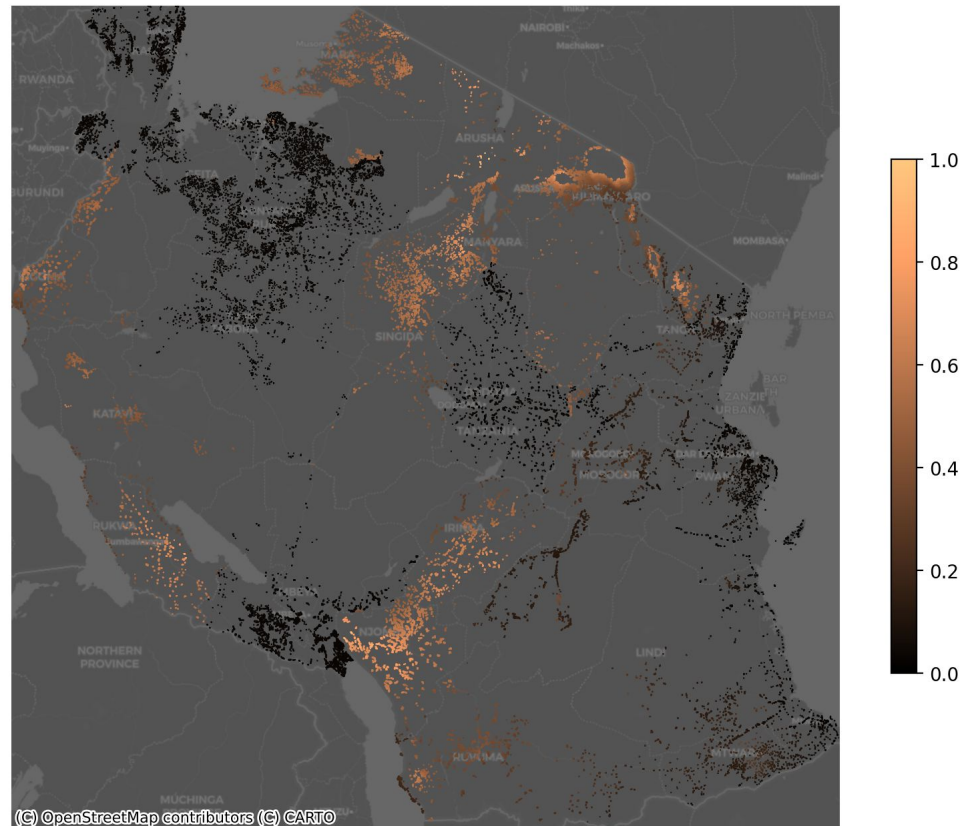
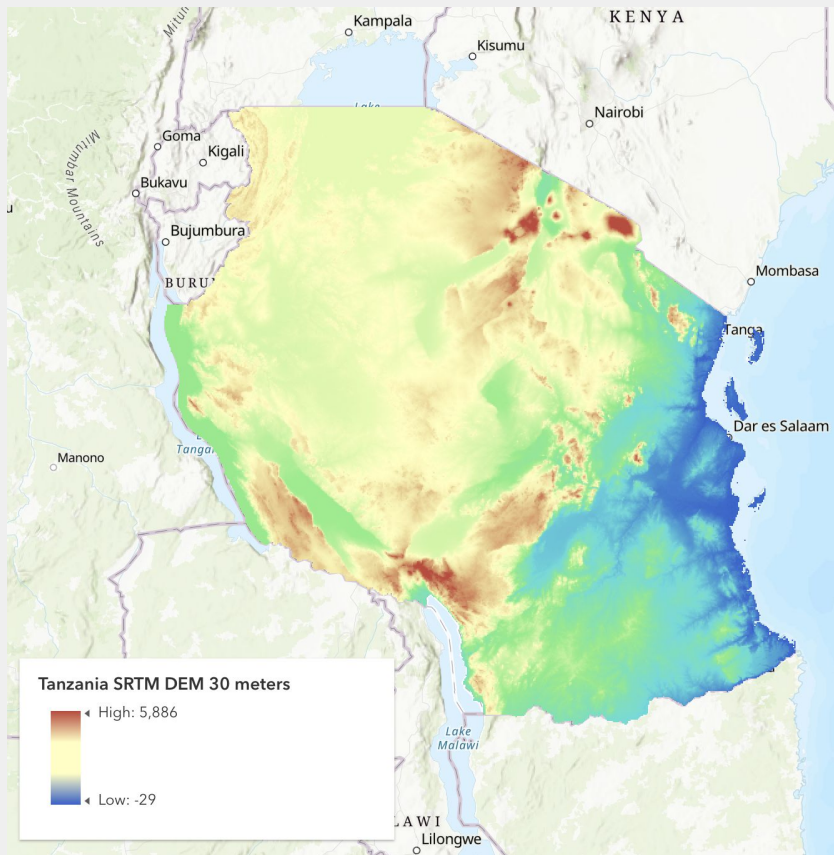
F1-Score: 80%

Accuracy: 81%



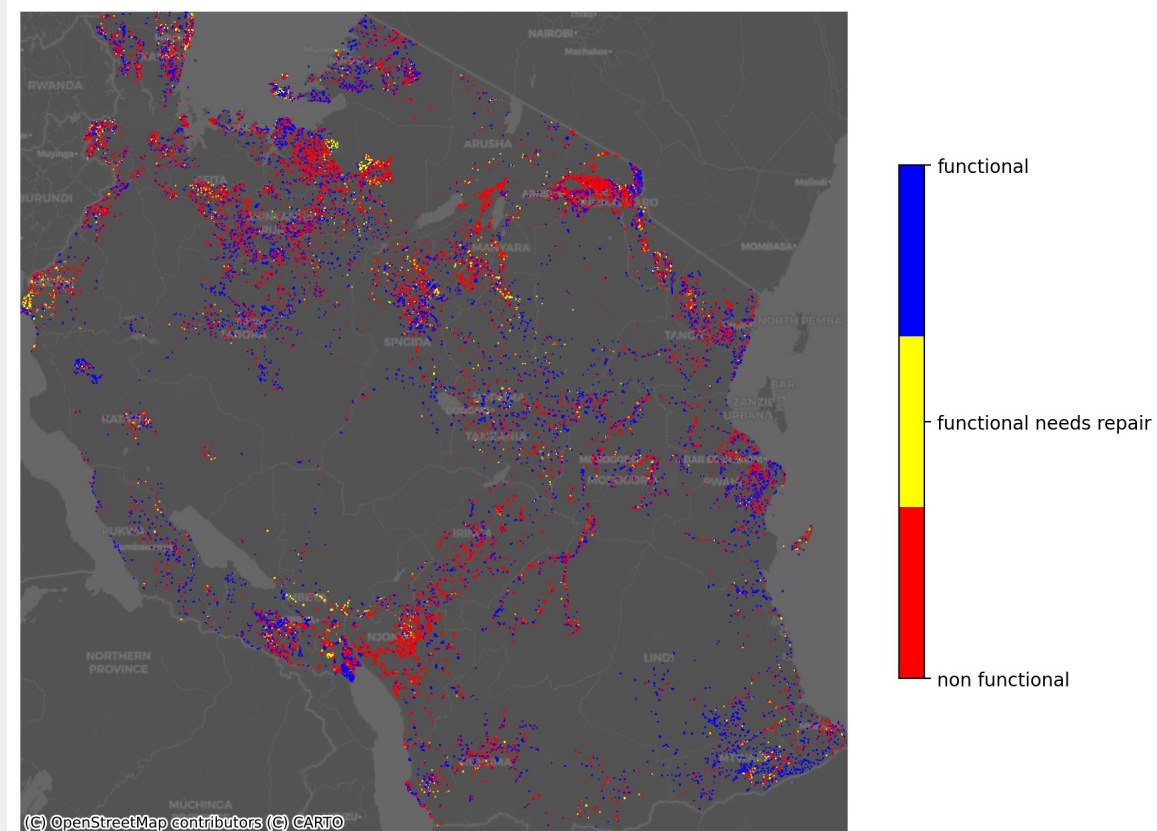
Analysis





Next Steps

- Should wells be repaired?
- Distribution of wells
- Model Improvement
- Repairing wells



Thank You!

GitHub: KeananG

