
Tanzanian Water Pumps
Helping to ensure those in need
have access to safe water

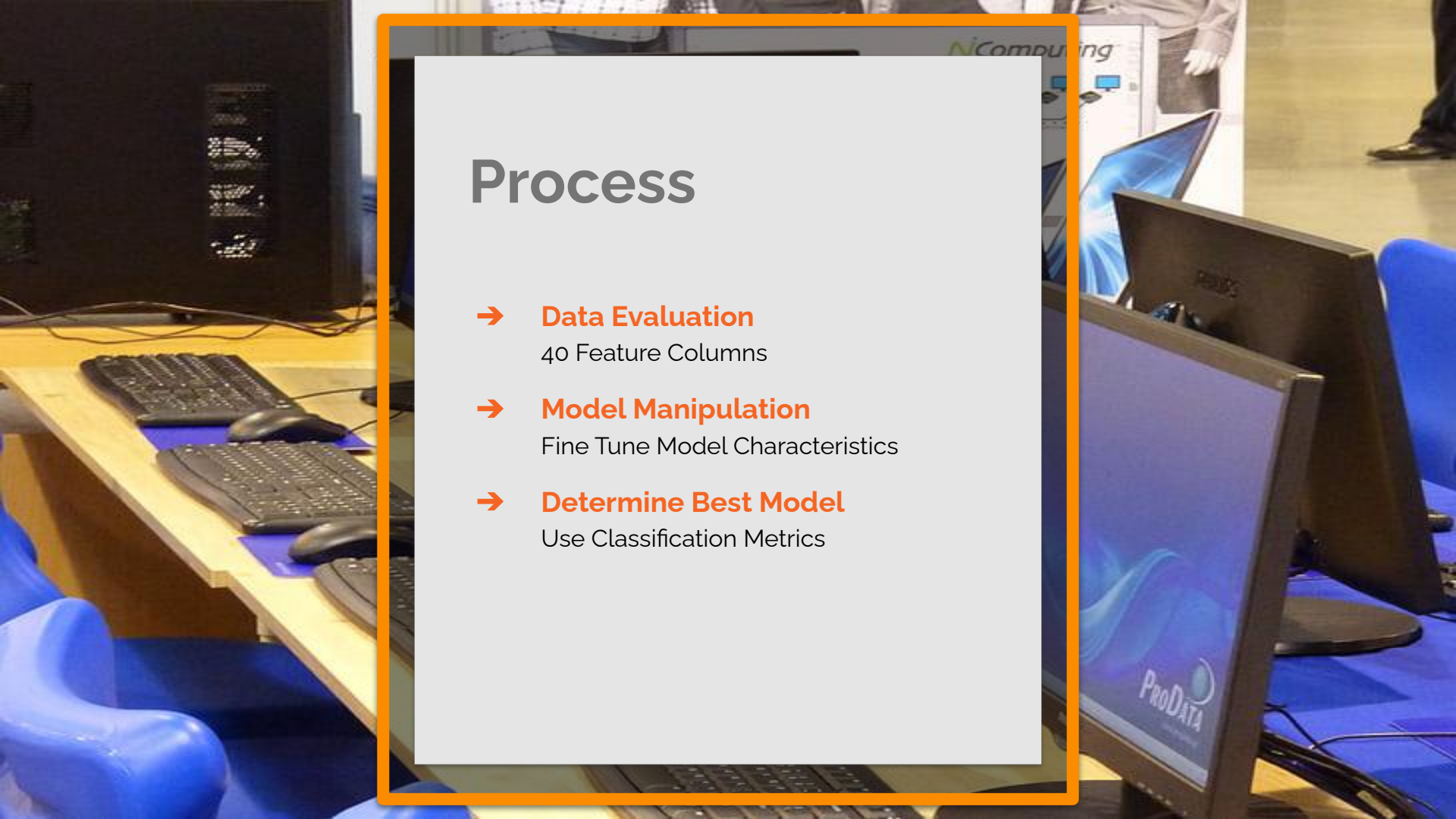
Tanzania is a nation of 59M people.

28% (16M) lack access to clean water

Our Problem

Finding a way to anticipate malfunctions in water pumps before they happen

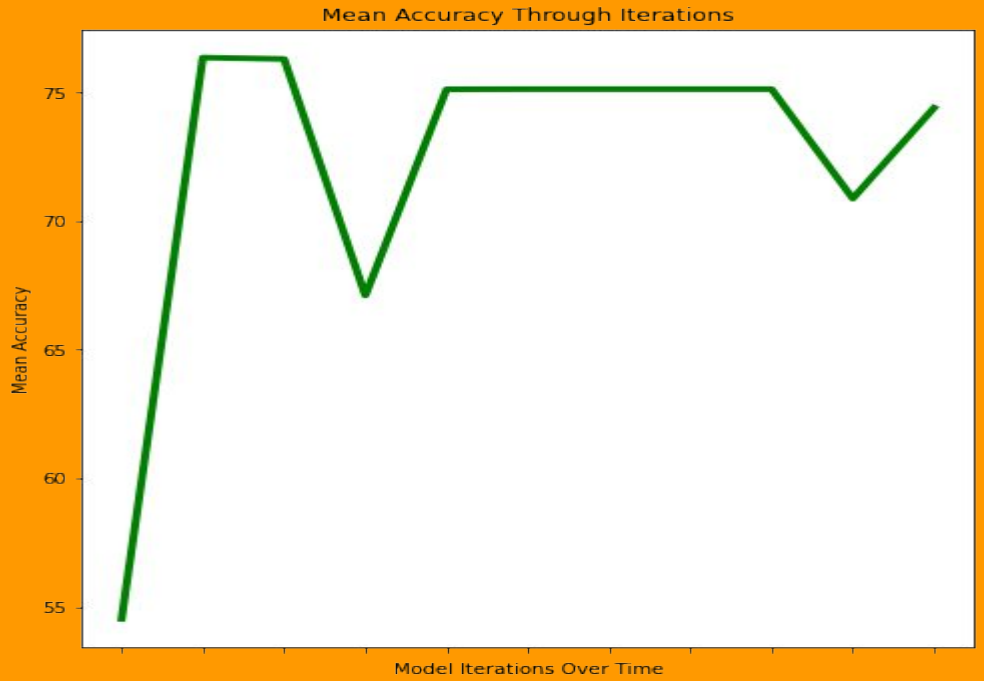
Quicker repair means fewer people suffering from lack of access to water



Process

- **Data Evaluation**
  40 Feature Columns
- **Model Manipulation**
  Fine Tune Model Characteristics
- **Determine Best Model**
  Use Classification Metrics

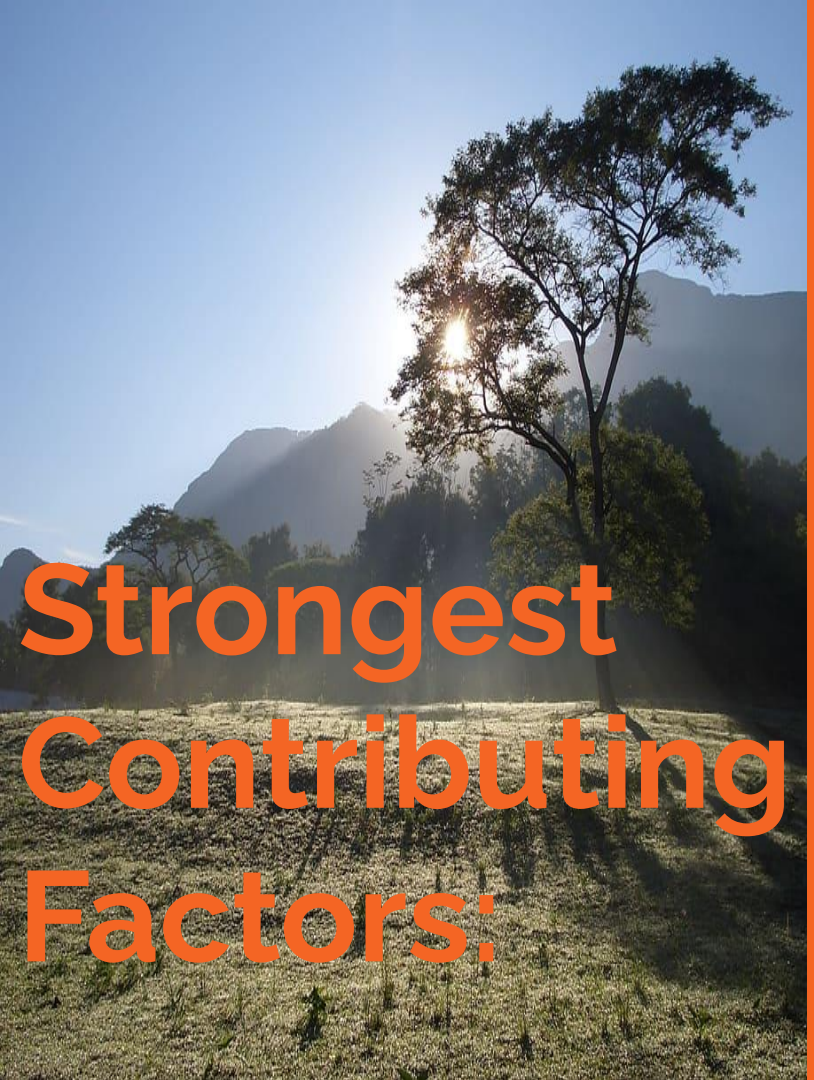
Progress is not linear



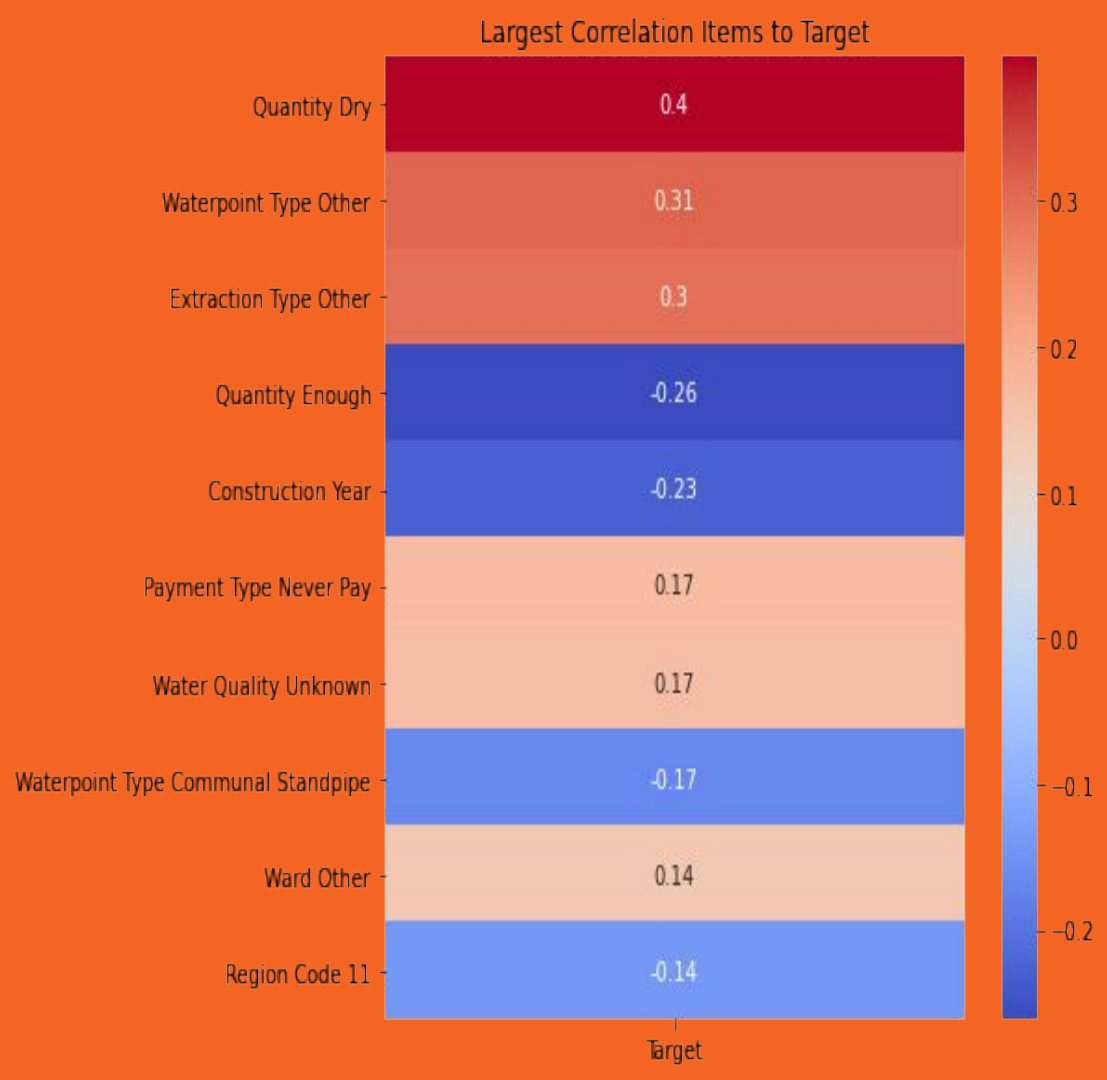
Model Performance

Mean Accuracy

Maximized at 76.4%



Strongest Contributing Factors:



Next Steps:

- Improve Data Collection
- Assess Cost of Repair vs Replacement
- Investigate Alternative Water Harvesting Technology

Adopt our model, and help save lives!

Thank you for your consideration!