

Well Status in Tanzania

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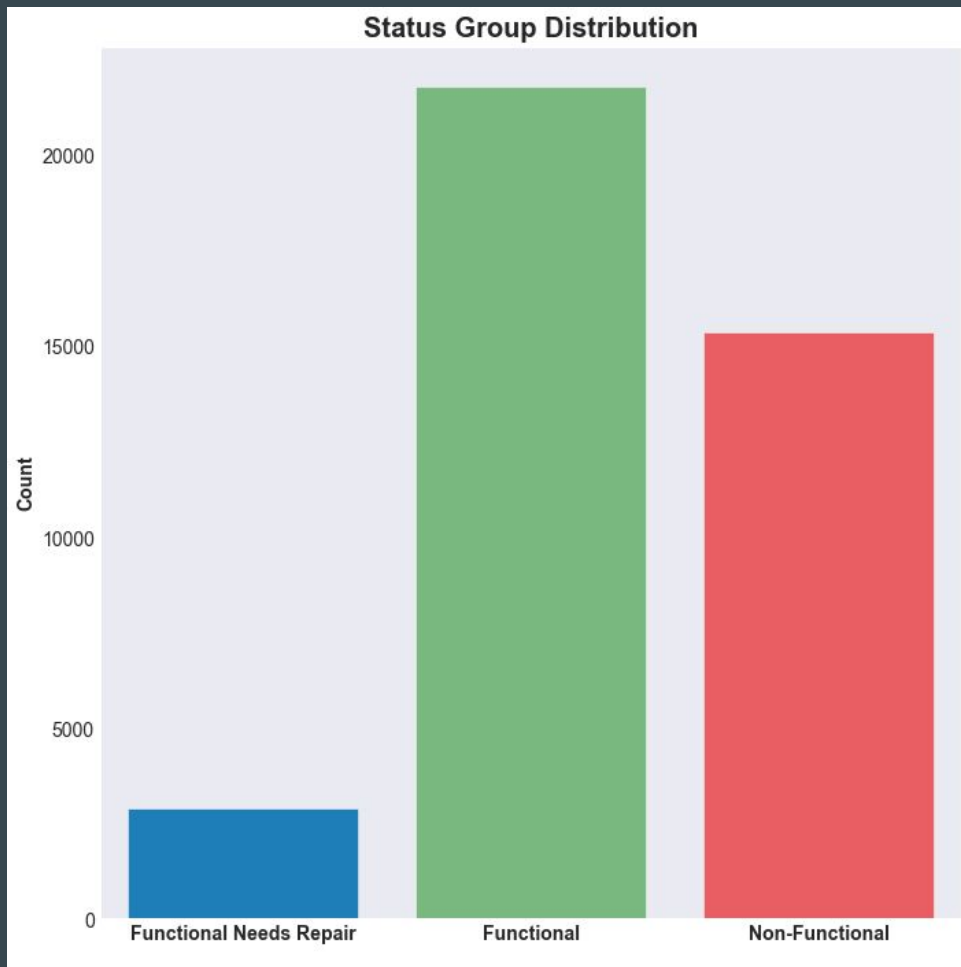
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Business Problem

- President Samia Suluhu Hassan has tasked us with predicting the status of water wells within her country.

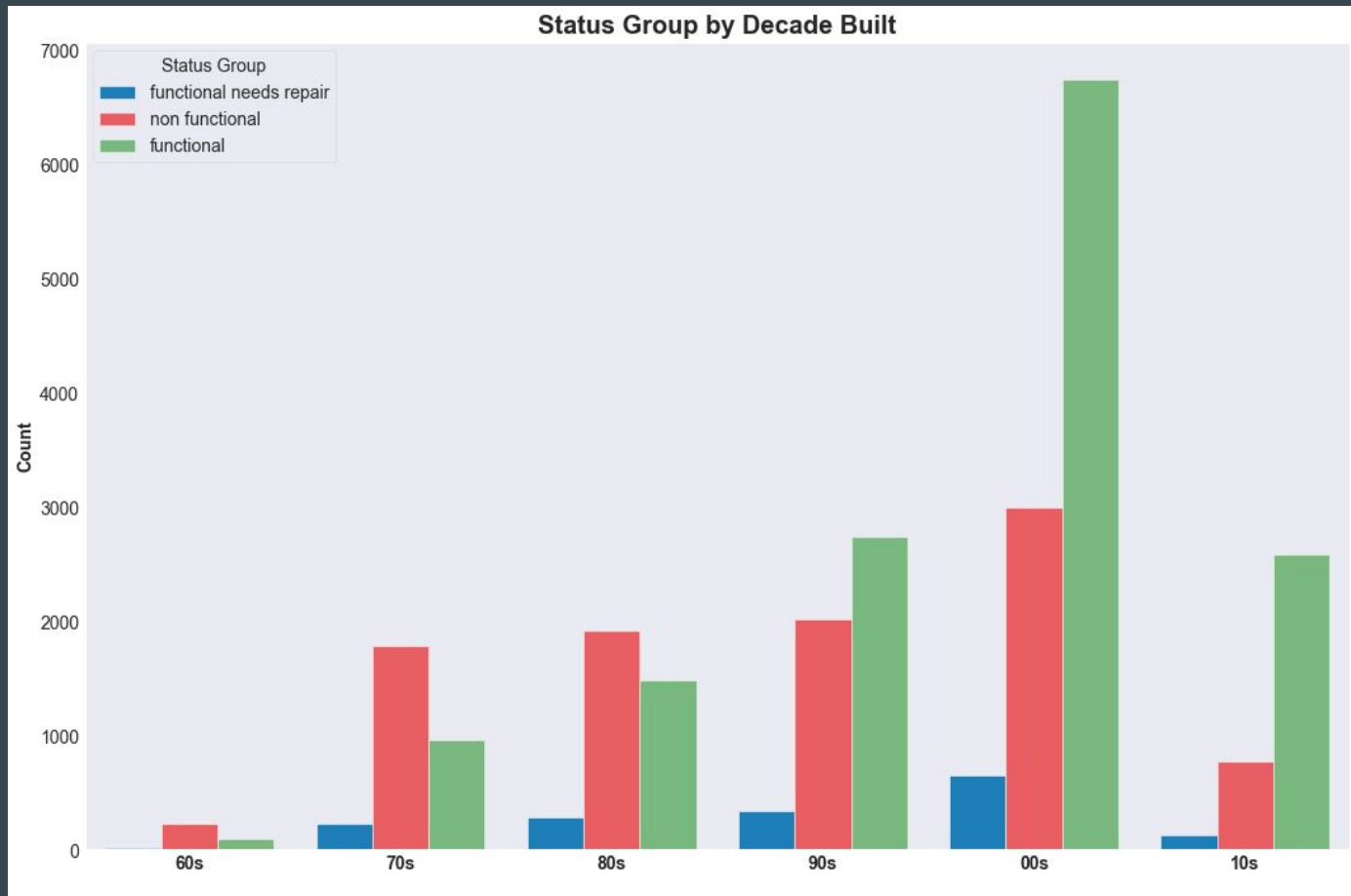
Data

The Driven Data dataset contains about 60,000 records detailing water well status in Tanzania.



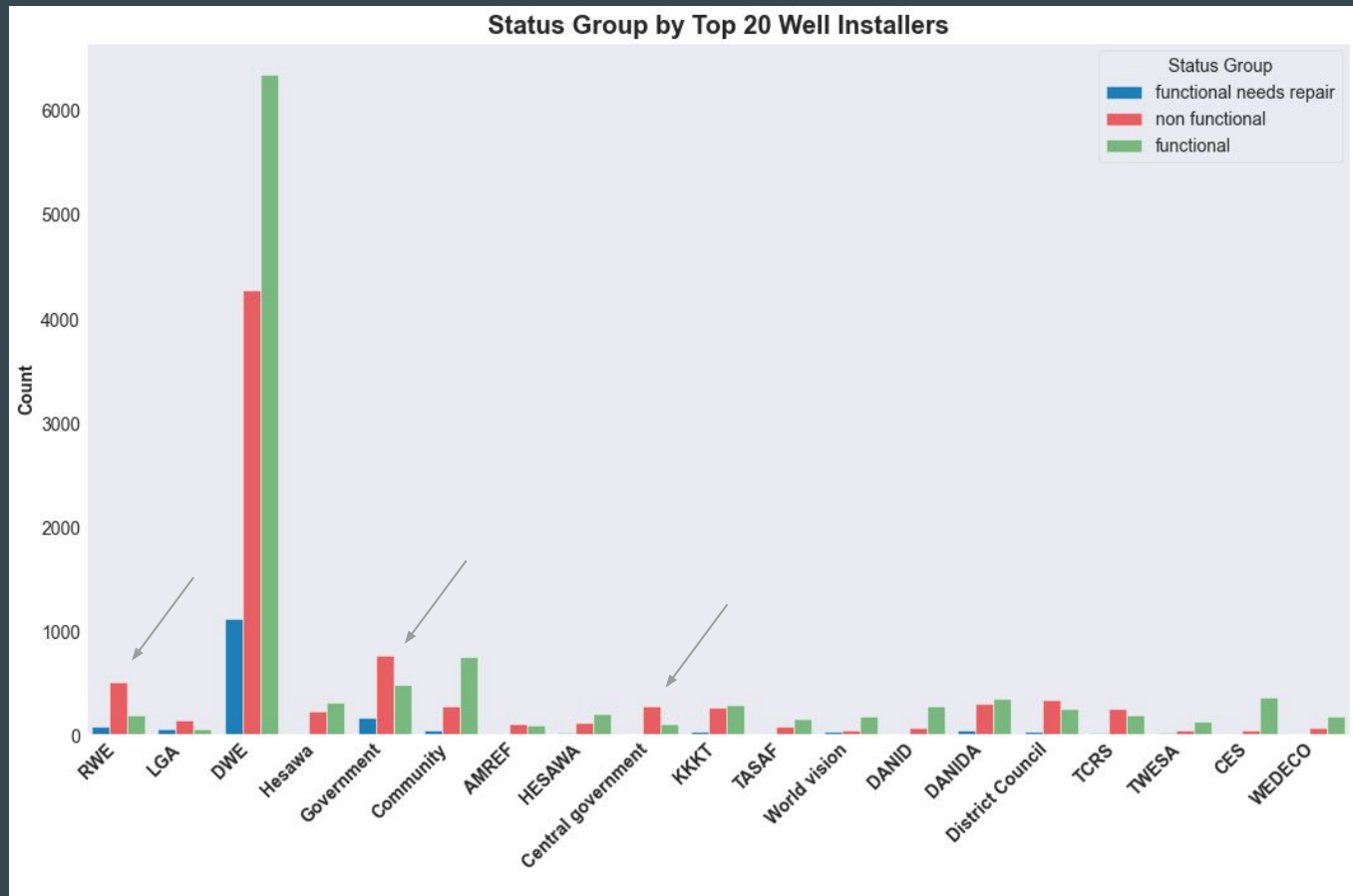
Age of the Well

Many older wells are non-functional.



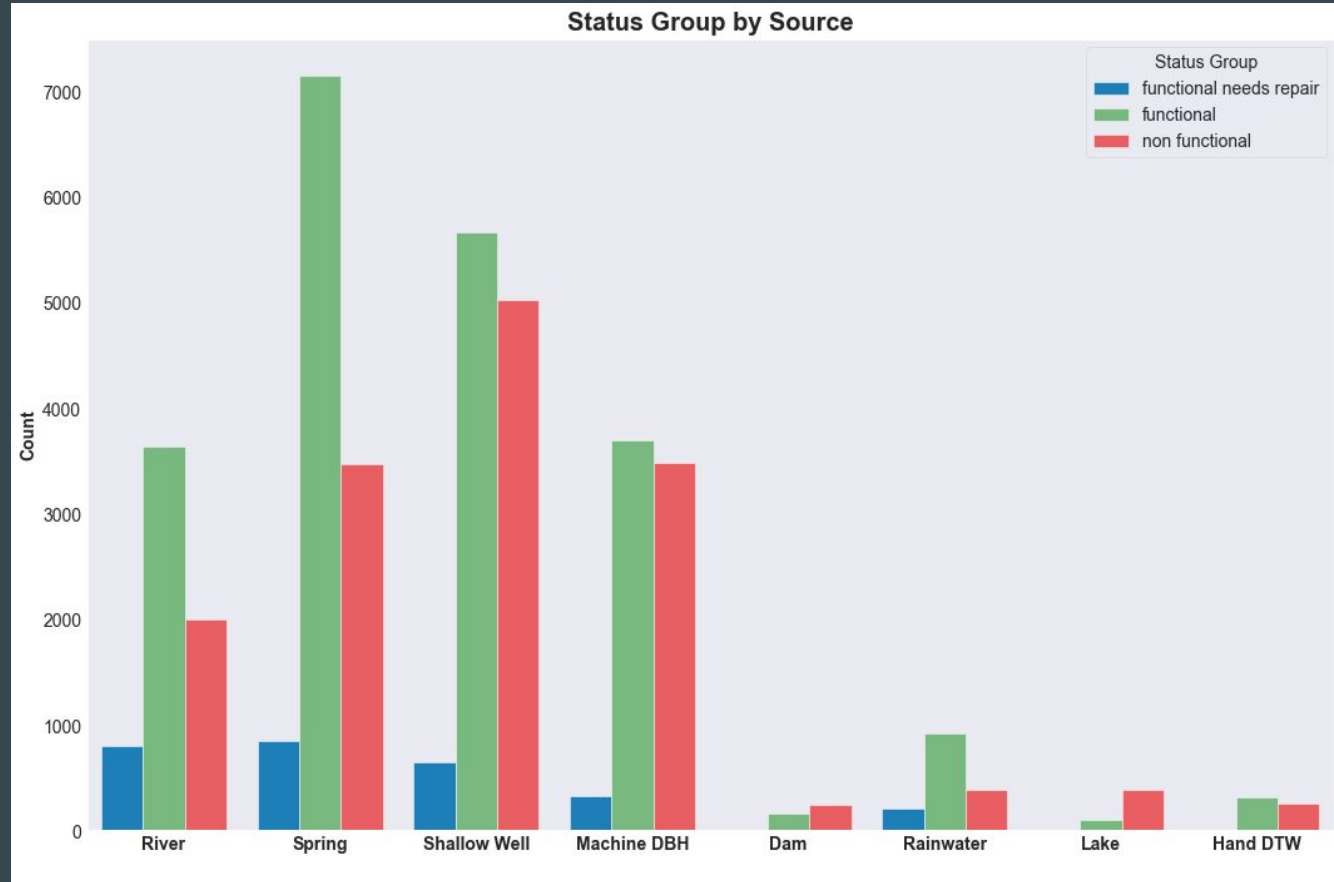
Well Installer

Who installed the well is an important factor in determining whether the well is functional or not.

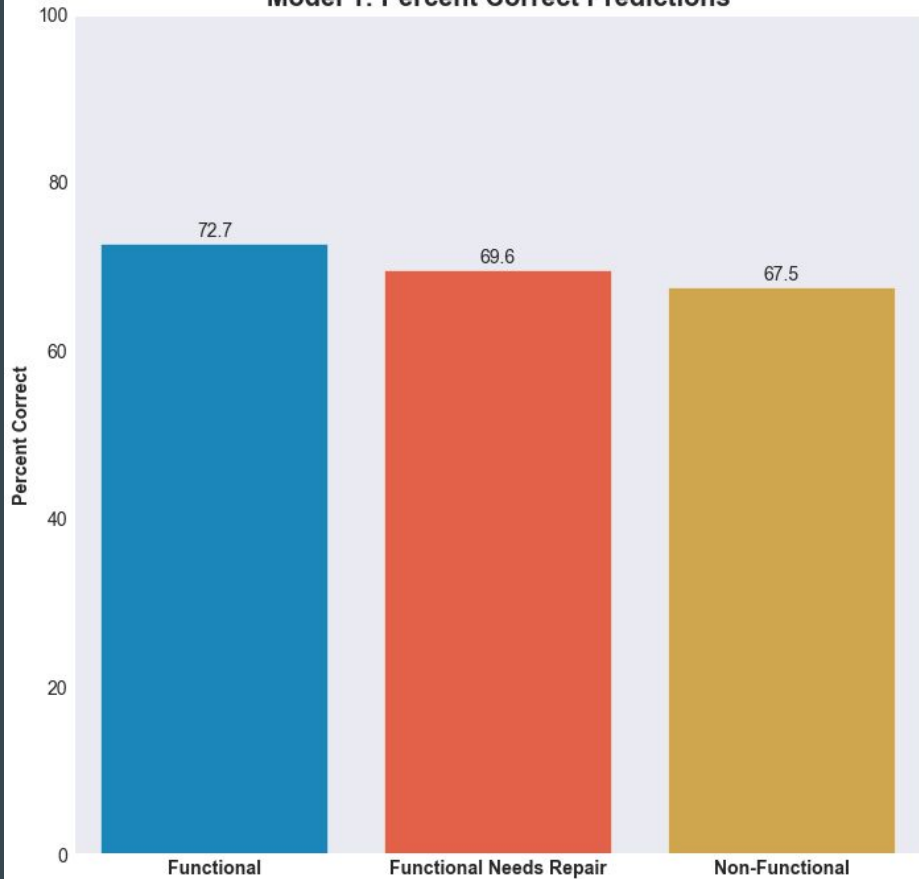


Source of Wells

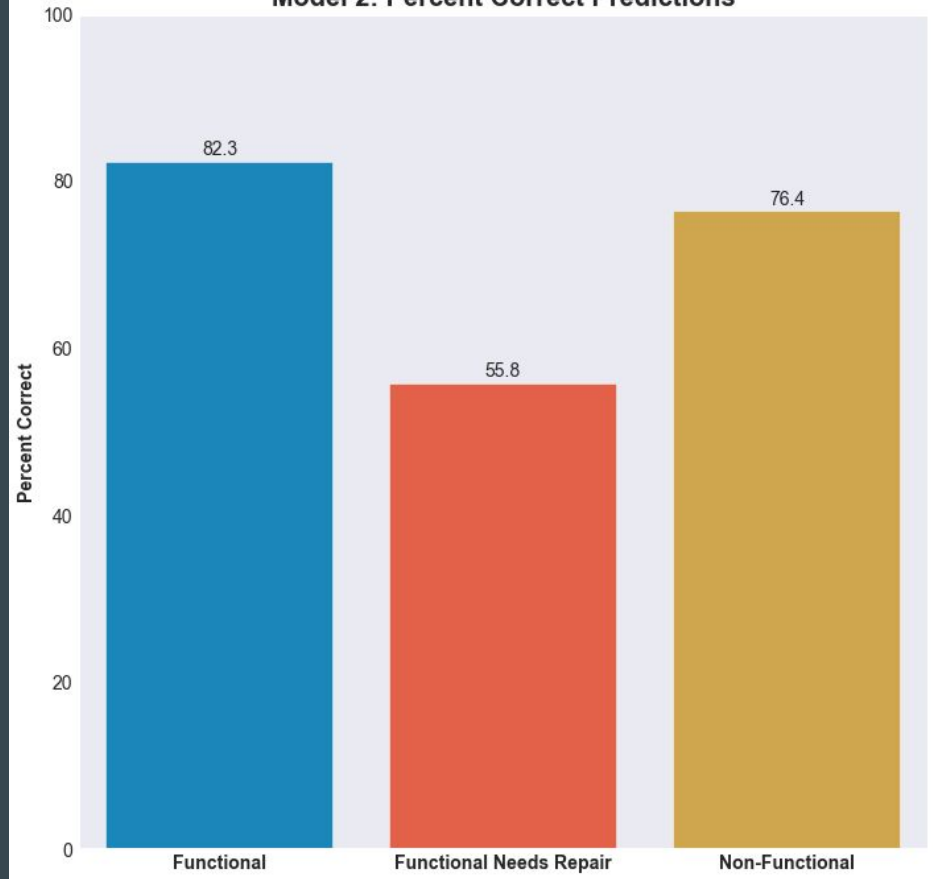
The source of the well water is important in determining the well status.



Model 1: Percent Correct Predictions



Model 2: Percent Correct Predictions



Future Additional Work

- Visit in country for better domain knowledge
- Incorporate geographic GDP distribution into the model
- Rural vs. urban divide
- Search for better models with more computational power

Questions?