

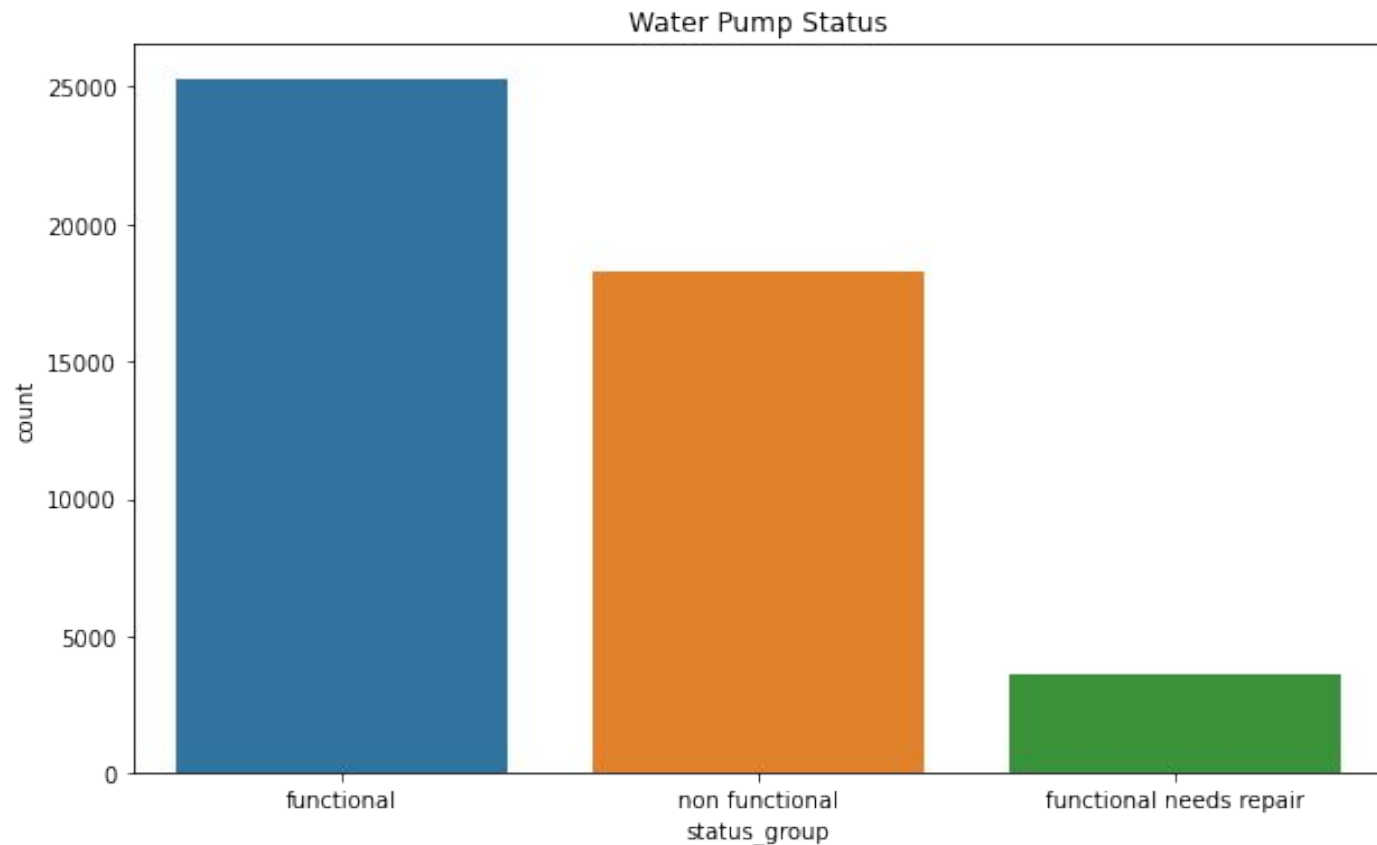
Tanzanian Water Wells



Tanzanian Government

Functioning water wells

Water well distribution

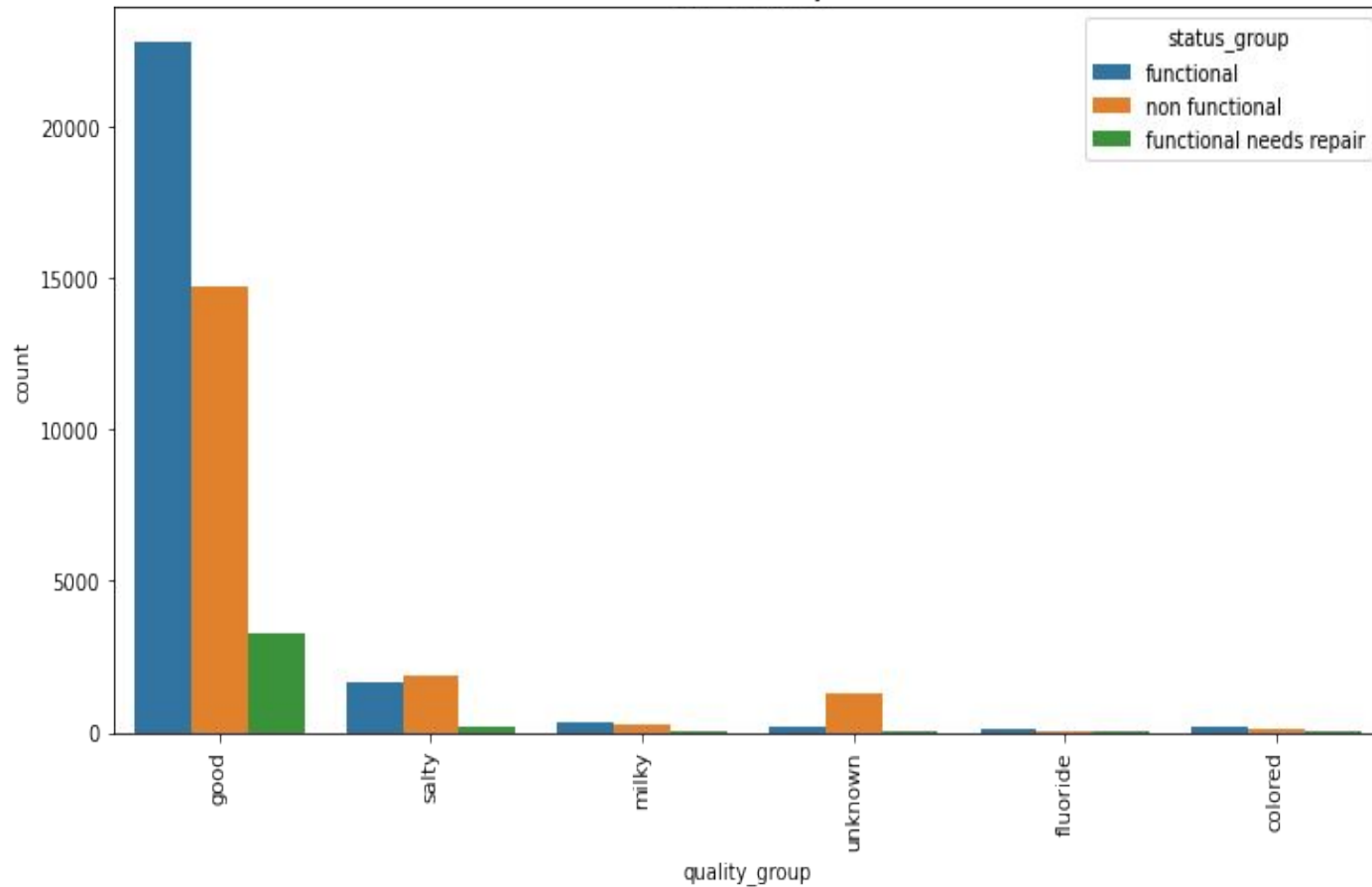


Functional: 53.62 %

Non-Functional: 38.80 %

Needs Repair: 7.58 %

Water Quality



Soft 86.8 %

Salty 7.2 %

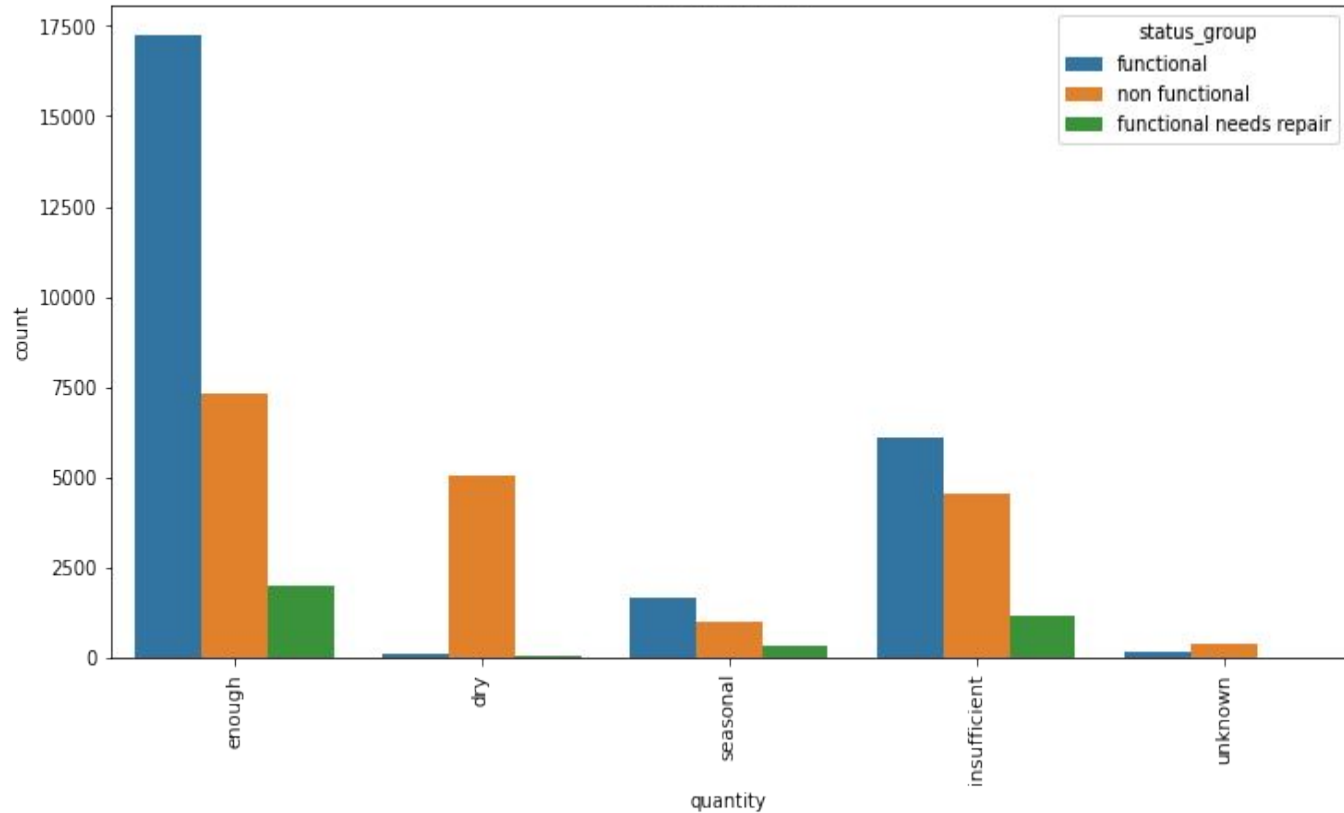
Milky 3.2 %

Unknown 1.3 %

Fluoride 0.56 %

Colored 0.03 %

Water Quantity



Enough 56%

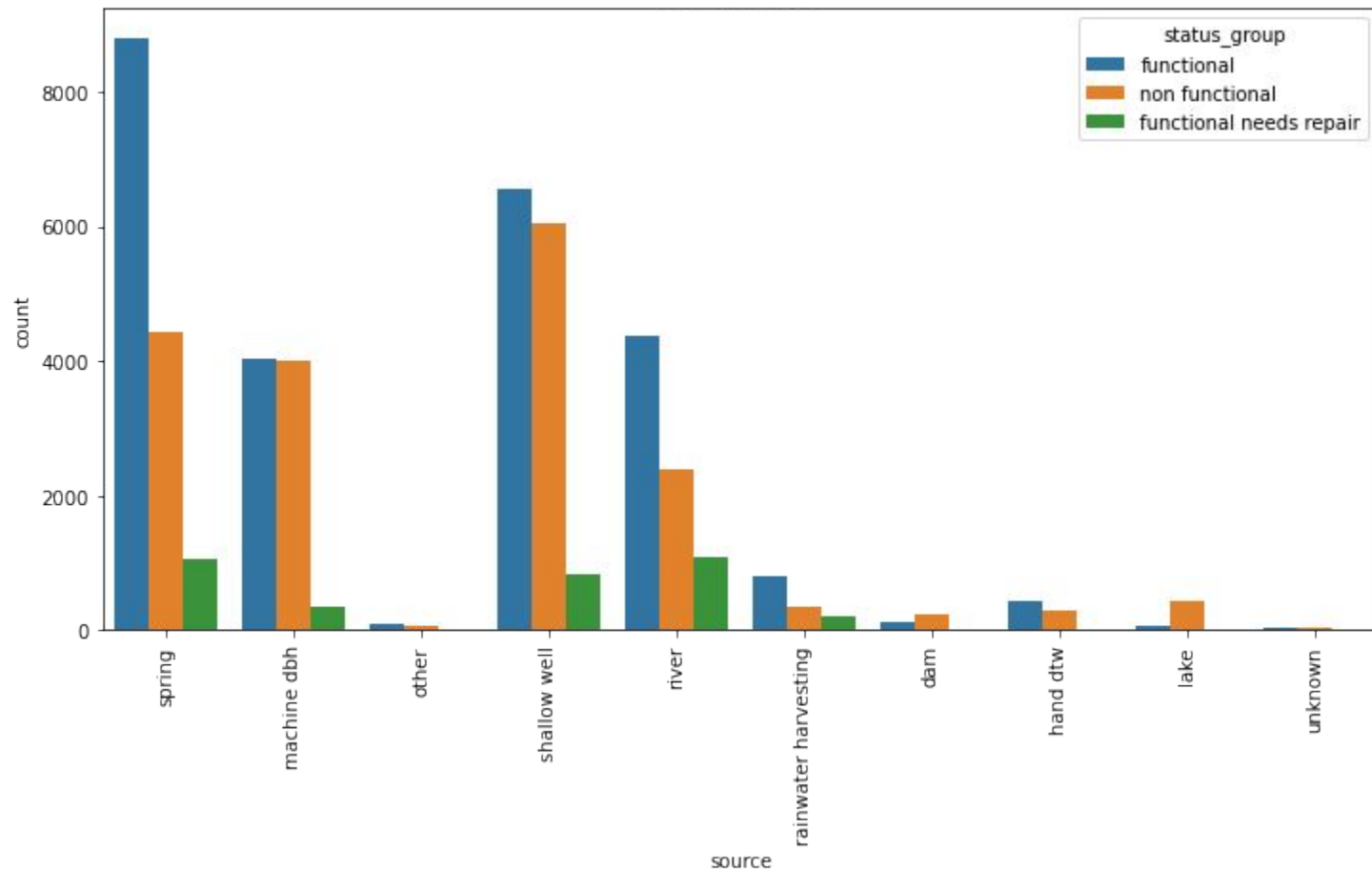
Dry 25%

Seasonal 11%

Insufficient 6%

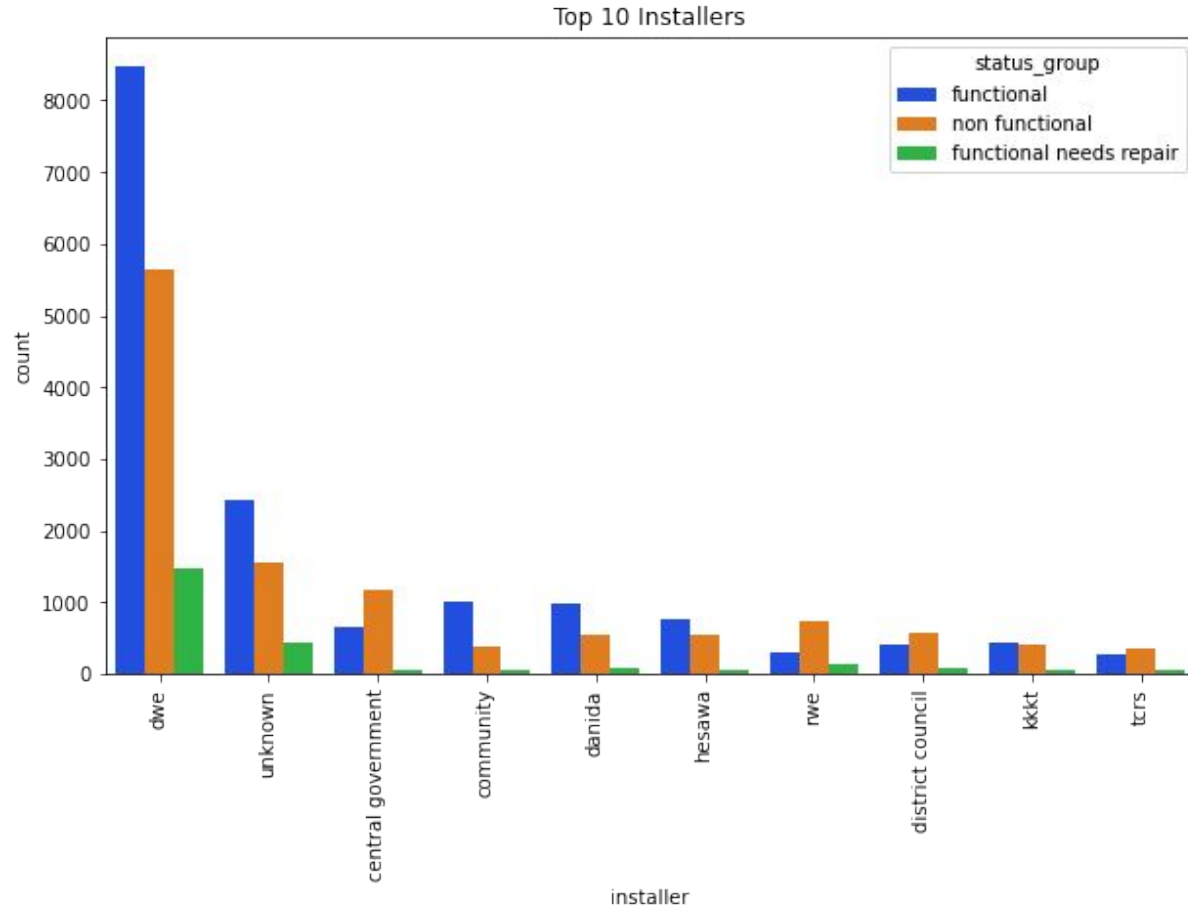
Unknown 1%

Water Source



Spring	30 %
Shallow	28 %
Machine	17.8 %
River	16.9 %
Rain water	2.8 %
Hand Dtw	1.5 %
Lake	1.0 %
Dam	0.8 %
Other	0.3 %
Unknown	0.12%

TOP 10 installers by Percentage



DWE: 33.06 %

Unknown: 9.35 %

Central government : 3.97 %

Government: 3.79 %

Danida: 3.39 %

Community: 3.09 %

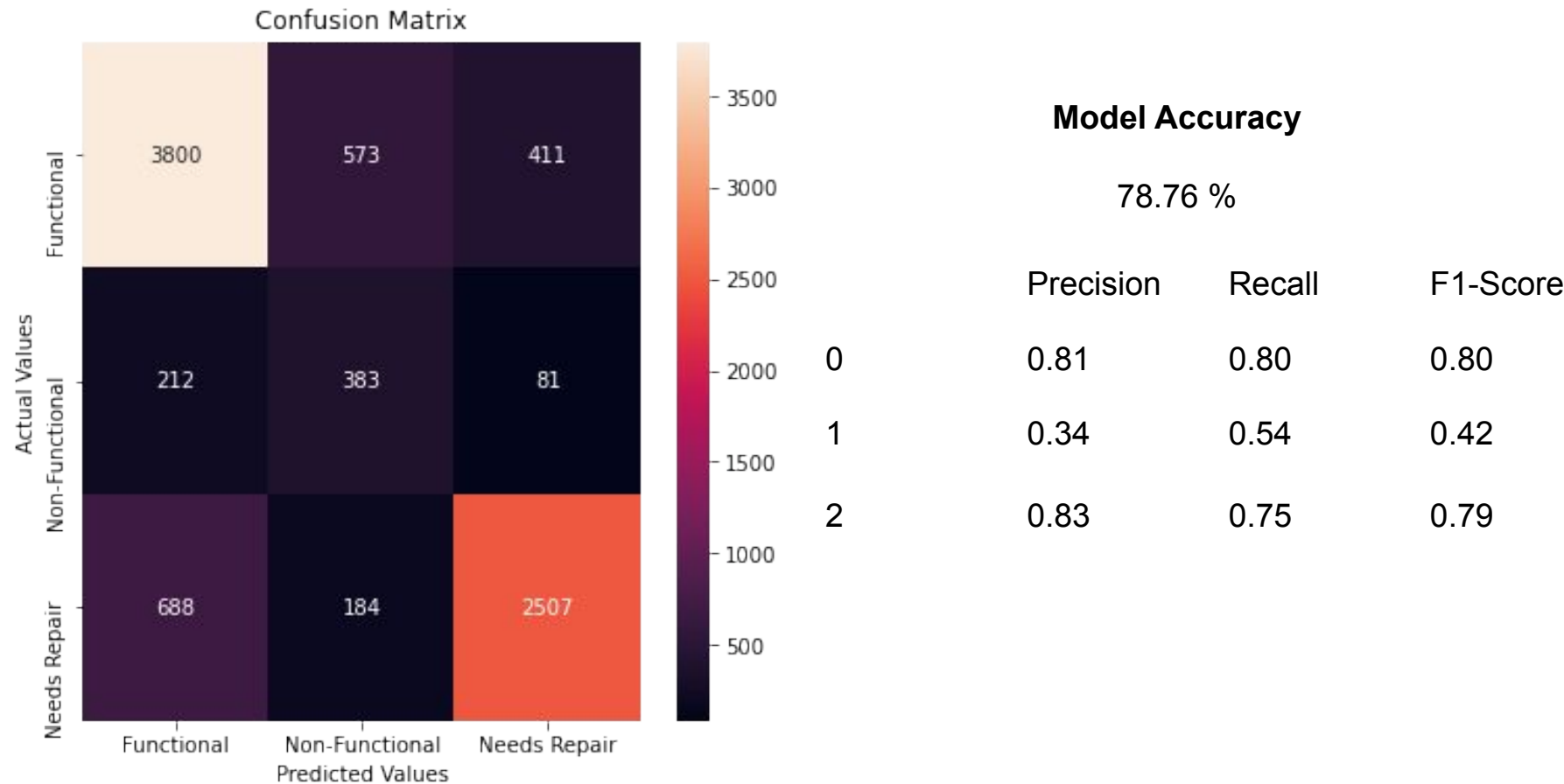
Hesawa: 2.89 %

Rwe: 2.43 %

District council: 2.25 %

Kkk: 1.92 %

XGboost Model Results



Recommendations

-
- Focus on gathering a full data set.
- Create and maintain a clean database.
- Record why pumps needed repair, broken parts.
- Invest in private companies installing water wells.

Improvements

Example of 'dirty data': Different values for Government as an installer.

'Central Government', 'Tanzania Government', 'central government', 'Cental Government',
'Cebtral Government', 'Tanzanian Government', 'Tanzania government', 'Centra
Government', 'CENTRAL GOVERNMENT', 'TANZANIAN GOVERNMENT', 'Central
govt', 'Centr', 'Centra govt', 'government of tanzania', 'government', 'GOVERNMENT',
'GOVER', 'GOVERNME', 'GOVERM', 'GOVERN', 'Gover', 'Gove', 'Governme', 'Governmen'