

Tanzania Water Well

Ronak Parekh

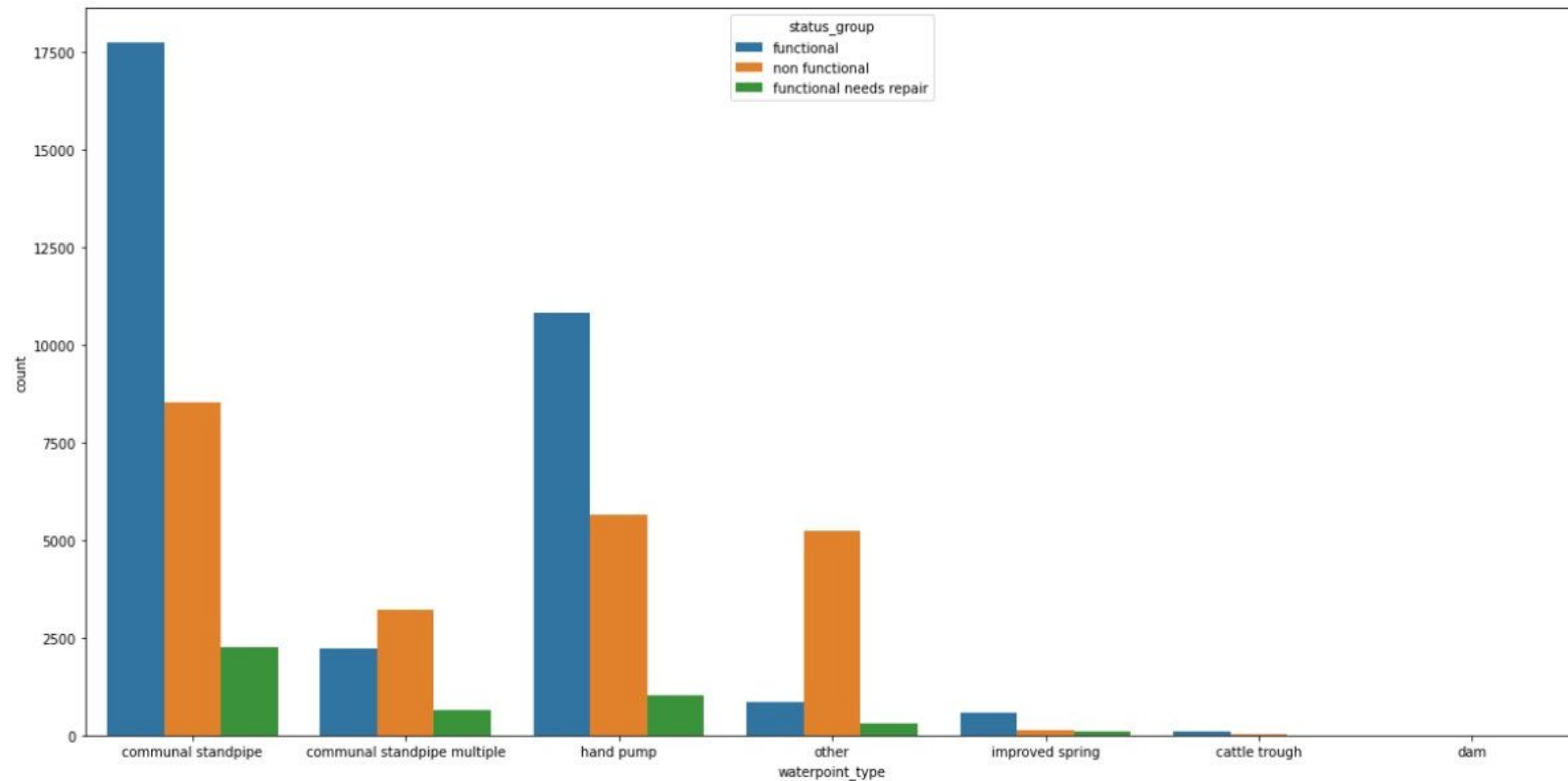
Business Problem

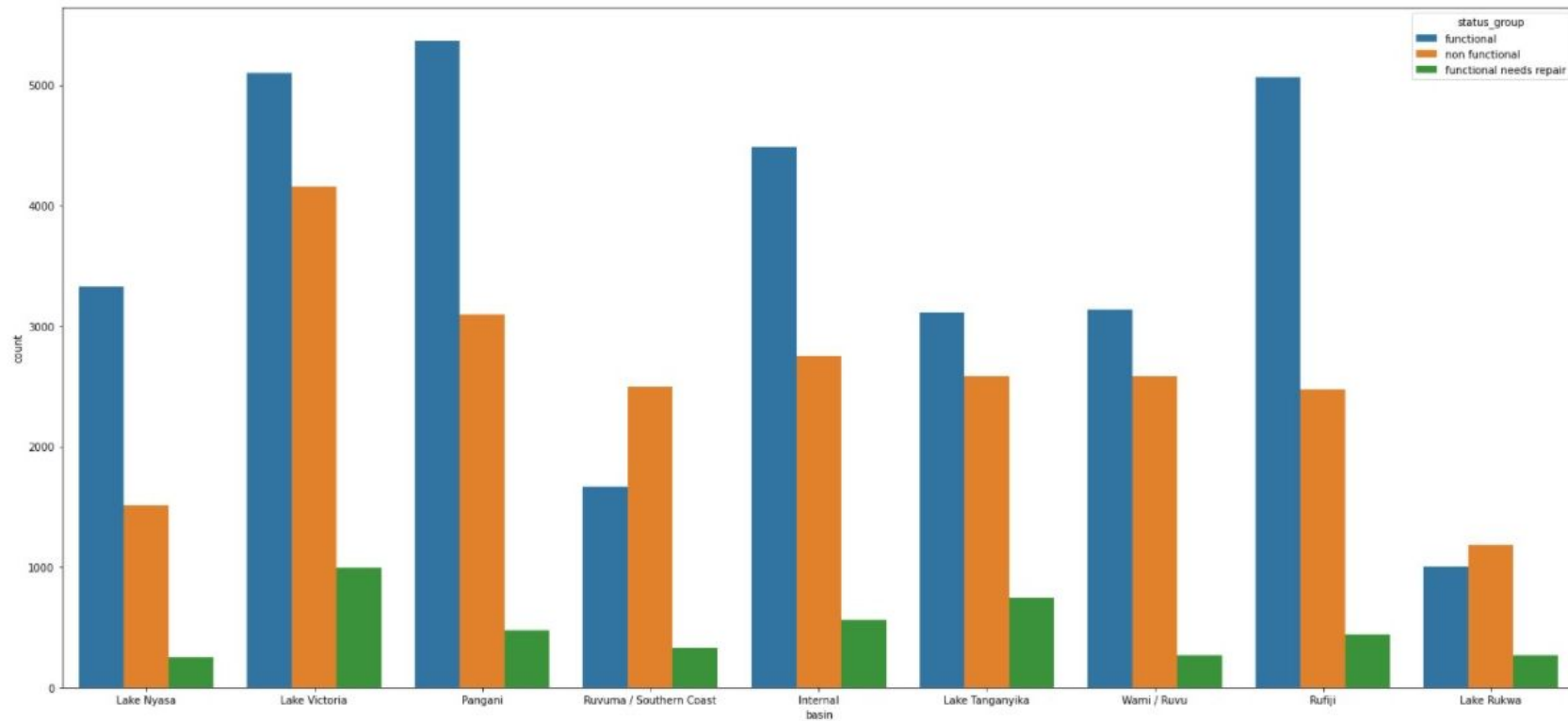
- Analyze data from Tanzania water wells
- Determine the functionality of future water wells
- Make recommendations to the Tanzania government

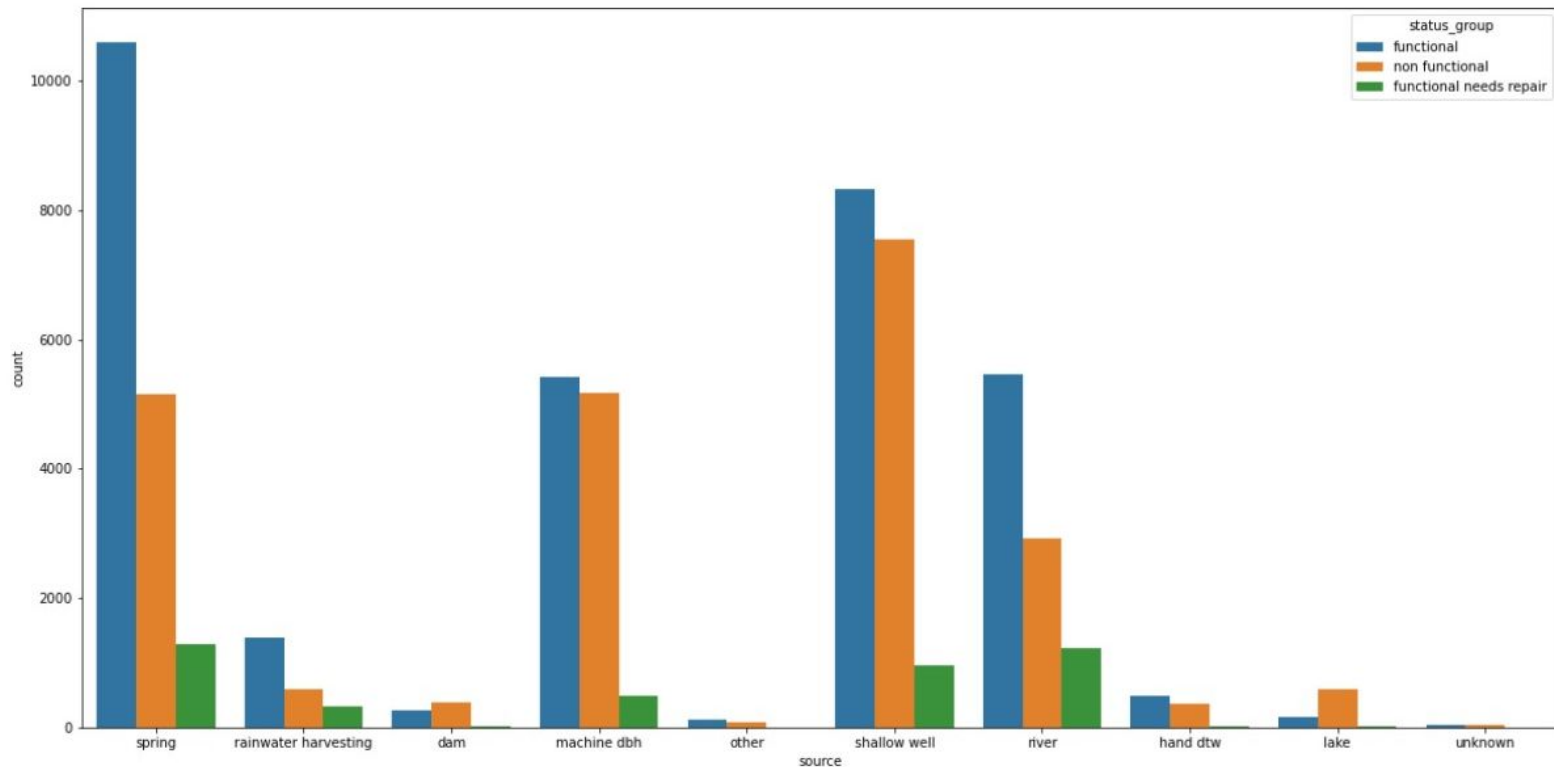
Data & Methods

- **Data source:** Data competition
 - ▷ Train set, and feature set

- **Predicted classes:**
 - ▷ **Functional**
 - ▷ **Functional but needs repair**
 - ▷ **Non-functional**

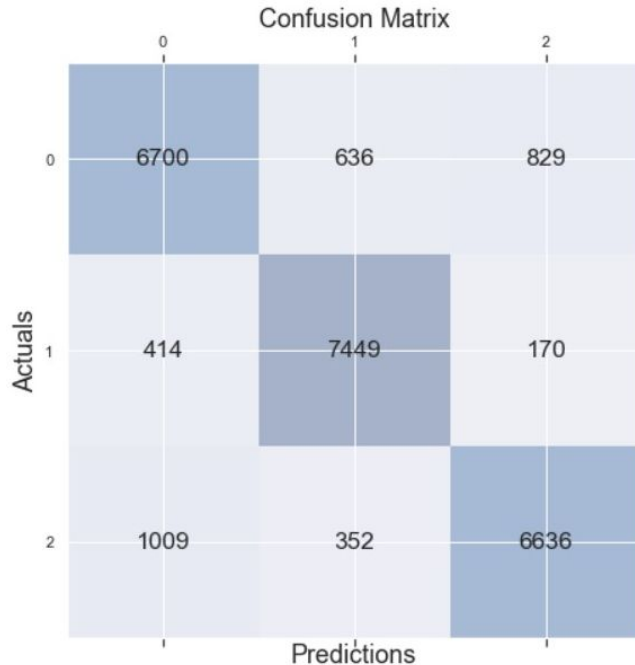






Model Performance

Final Random Forest Model:



Balanced Accuracy:
0.8592288982778237

Conclusions

- Authorities need to check the wells of the ones they funded
- There needs to be more communal standpipes
- Focus on the repairs of the soft and enough water wells

Next Steps

1. More feature selection will be done
2. Improve the imbalance target problem
3. More hypertuning for the best results of the model

Thank You!

Ronak Parekh

Email:

ronakp2001@live.com

GitHub:

@Rparekh123