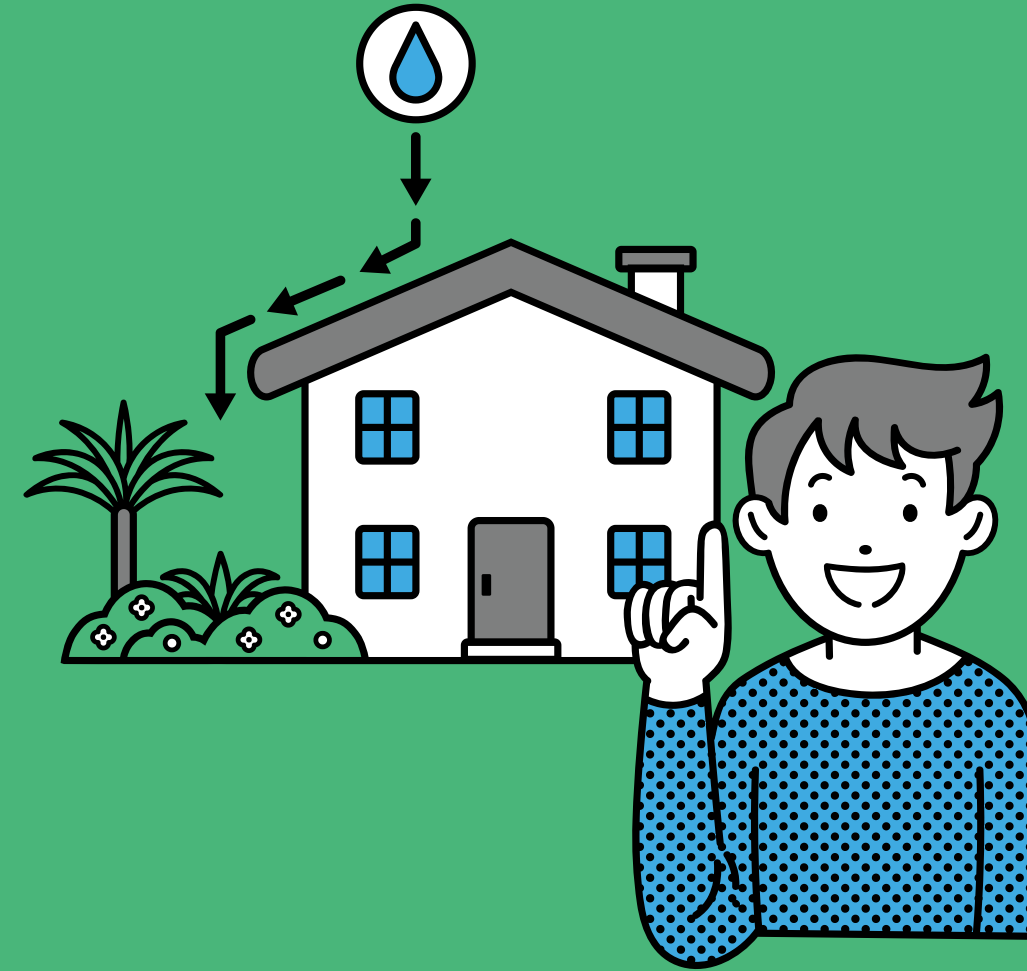


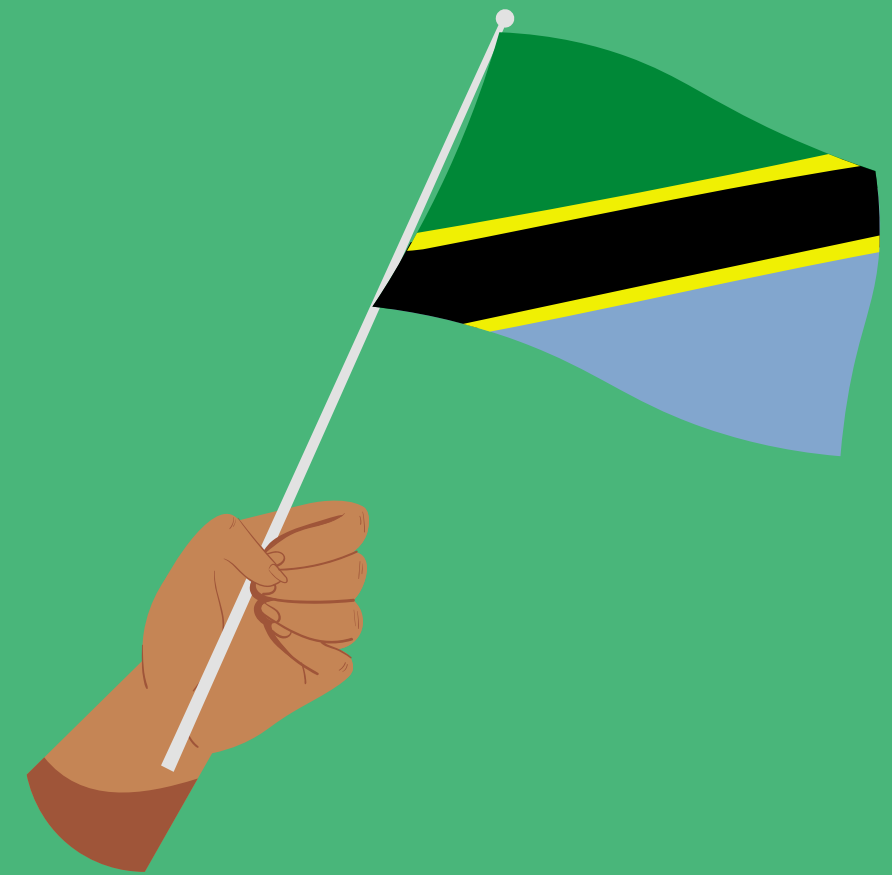
# TANZANIAN WATER WELLS

A comprehensive analysis



# Business Problem

Tanzania, as a developing country, aims to provide clean water to its population of over 57,000,000. There are many water points already established in the country, but some are in need of repair while others have failed altogether.



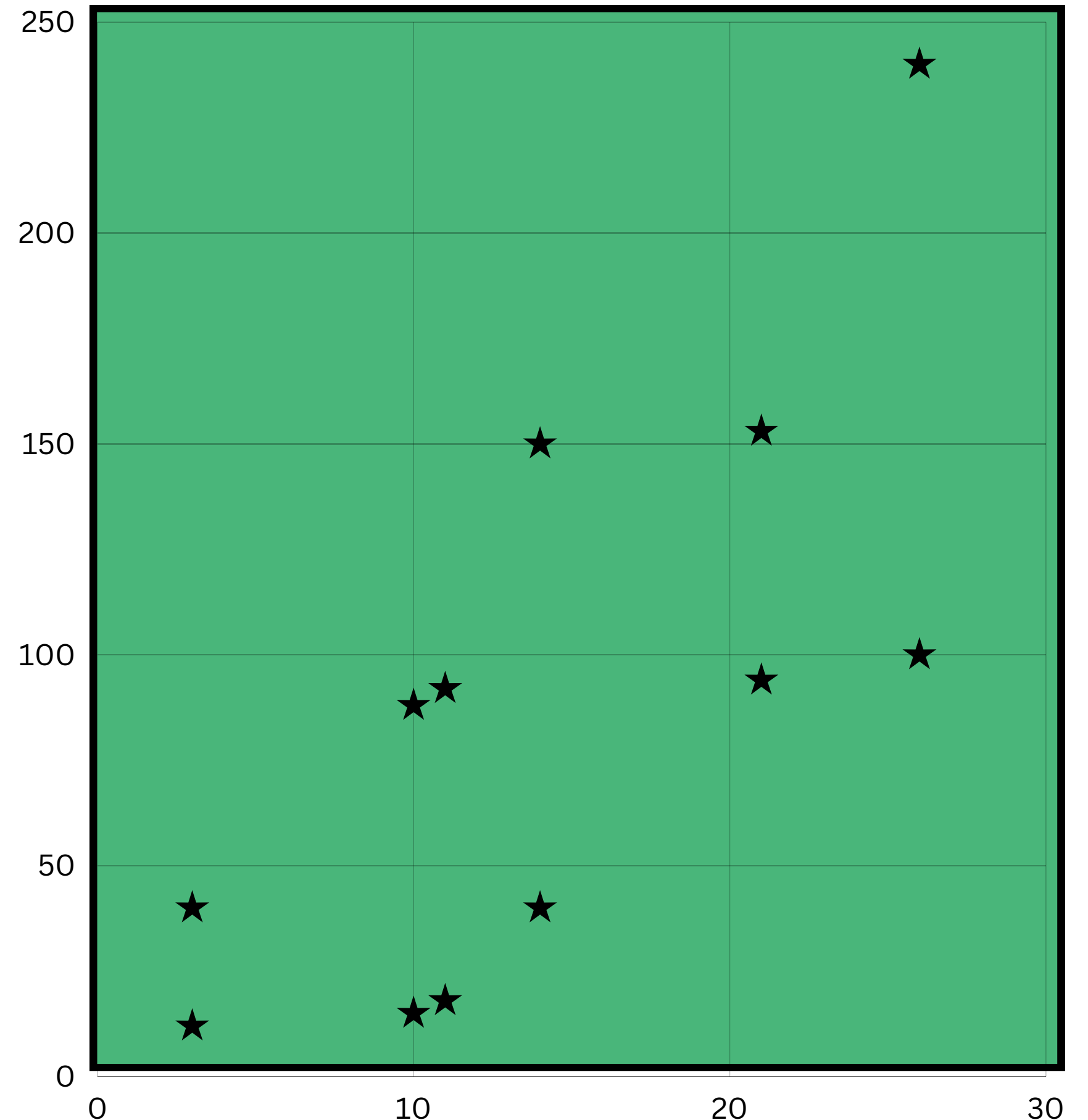
# Project Description

The purpose of this project is to build a classifier that can predict the condition of a water well, given information about the sort of pump, when it was installed, etc. Our audience is the Government of Tanzania which is looking to find patterns in non-functional wells in order to influence how new wells are built.



# Data Understanding

The data for this project comes from the Taarifa waterpoints dashboard, which aggregates data from the Tanzanian Ministry of Water.



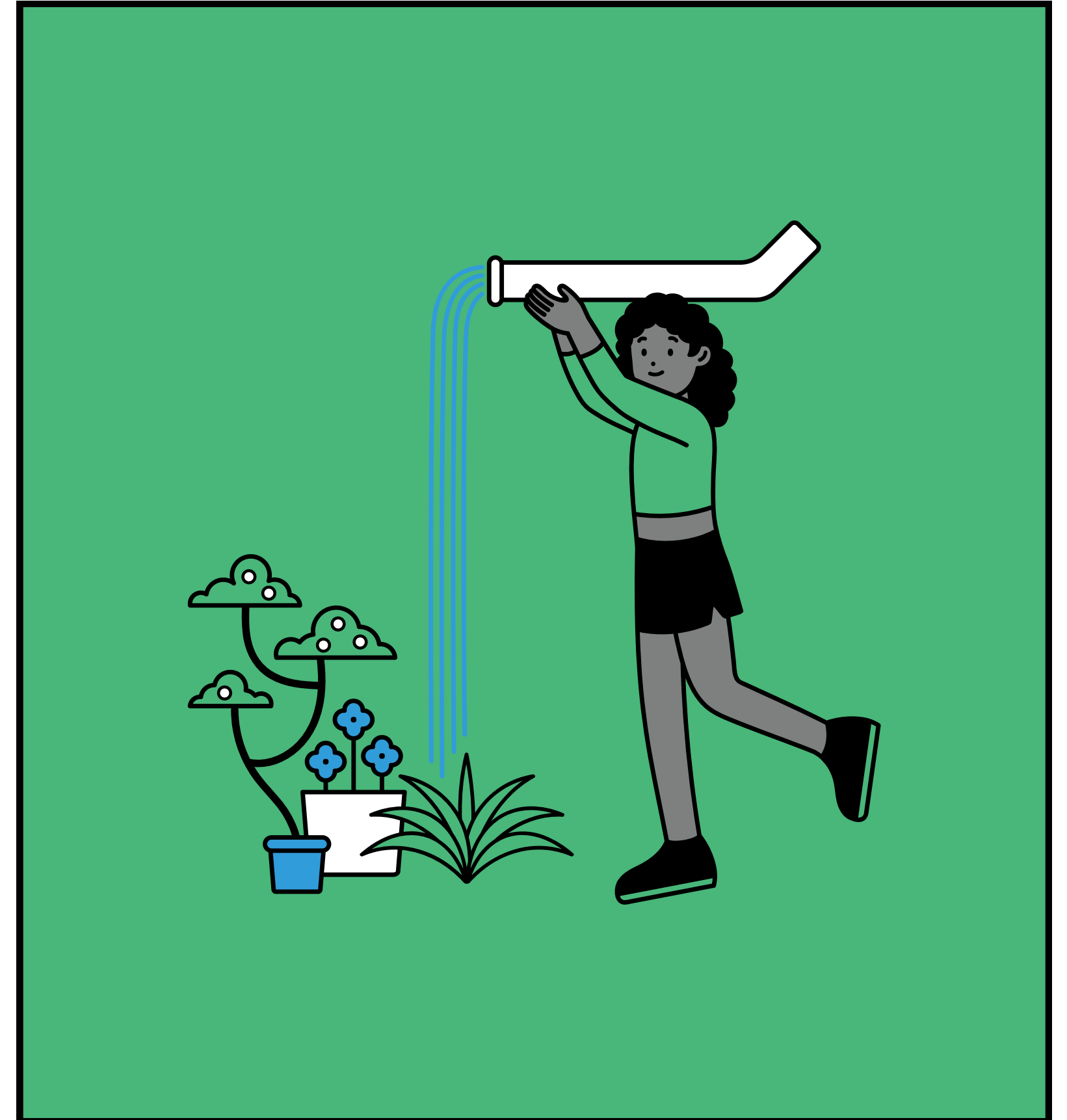
# Modeling

A classification algorithm was built with an accuracy score of 86 percent, meaning it would make correct predictions 86 percent of the time.



# Recommendation

We therefore recommend that the Tanzanian Government utilize this algorithm to improve efficiency of operations.



# Conclusion

More and more businesses are leveraging on the use of data to drive informed decisions. It has been an honor working with the Tanzanian Government. When we work together, we grow together

