PREDICTION MODEL

Decision tree

with 22 features and

F1 score of 0.84

(prototype - functional with 3 features)

Flask

web development,
one drop at a time

Probability of Functioning Water Pumps

Amount of water available: 1470

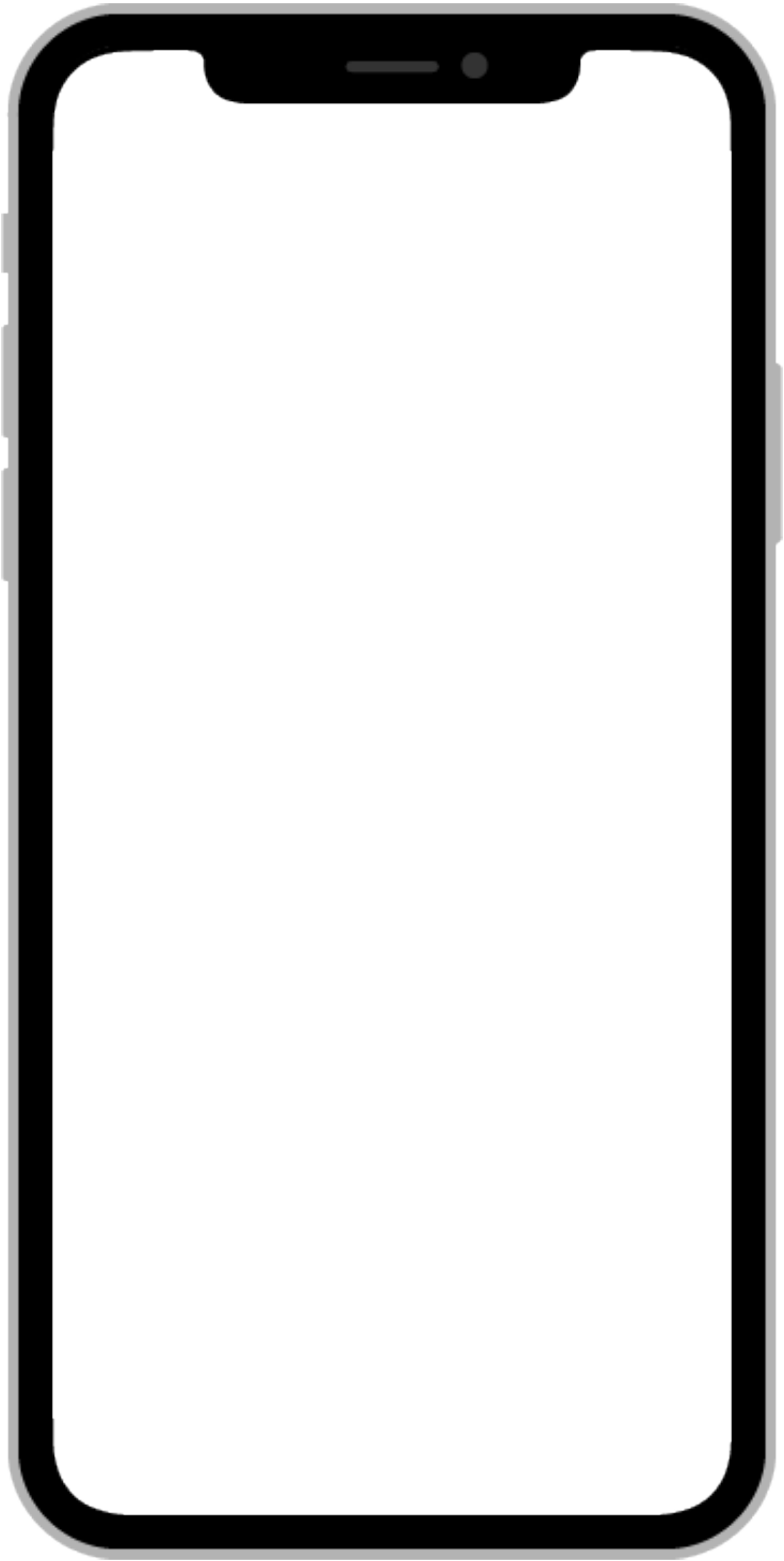
0 10000 20000 30000

Population around water pump: 15800

0 10000 20000 30000 40000 50000

Altitude of water pump: 245

0 1000 2000 3000



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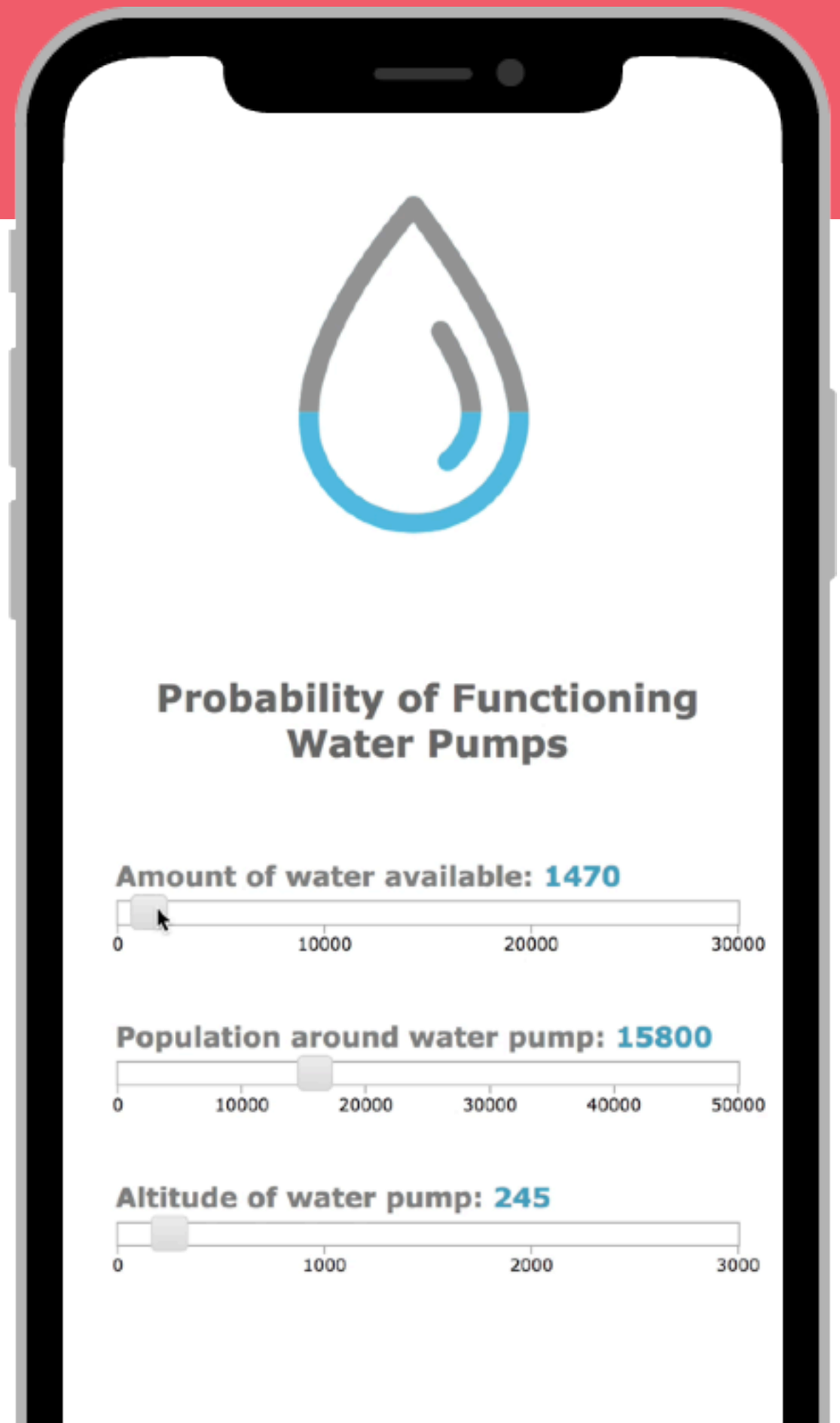

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Explore the four most important factors of the success of water pumps in Tanzania

Predict if your pump will function here

Region vs Pump Status

Pump status varies greatly across the 22 regions of Tanzania. Interact with the visualization below to see how each regions' pumps are distributed.

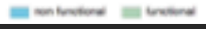
Select Region

Iringa is the region with the highest percent of functioning water pumps at a total of 78%. This region is known for its agriculture so it relies on reliable water sources.

On the other hand, Lindi, Tanzania's least densely populated region, has under 30% functioning. These remote areas are less likely to be serviced once pumps stop functioning.

Payment vs Pump Status

There are 5 specific payment schemes that are deployed at water pumps in Tanzania. Interact with the visual below to see how they impact the pump's functionality.



EXPLORE FOR YOURSELF