



EXPLORE-AI

SMART WATER ANALYTICS

A PROPOSAL ON WATER AVAILABILITY MANAGEMENT



Brief Background

The company struggled with the need to forecast the water level in a water body to handle daily consumption.

These water bodies include water springs, lakes, rivers, and aquifers

The company wants to determine the most efficient water availability based on the water level and water flow each day of the year.

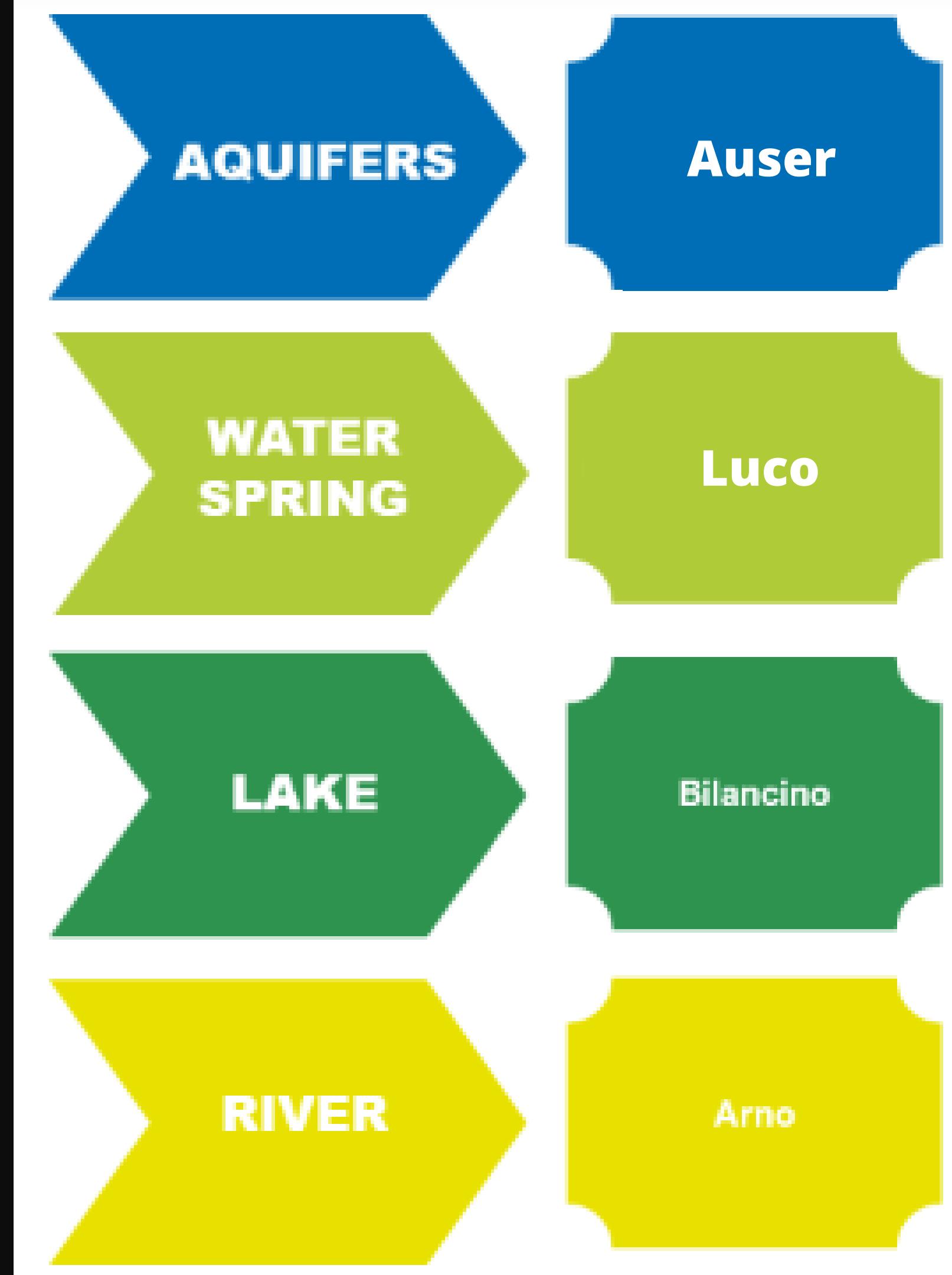
Problem Statement

To develop and deploy models that can predict the amount of water in each unique water body based on their features.



Aim

To determine what features can be attributed to the increase or decrease in the water levels for each water body (Aquifers, Water Spring, Lake, River), in their various sub-regions



Objectives

- Properly formatted data frames for analysis.
- Four efficient and optimized predictive models for each water body
- Deployment of our models

Methods

- Data Wrangling
- Exploratory Data Analysis
- Feature Engineering
- Modelling
- Deployment



PROPOSED PROJECT VALUE

MINIMIZED RISK OF
WATER SHORTAGE

SECURITY OF
COMPANY VALUE

CUSTOMER
SATISFACTION

ENVIRONMENTAL
WATER
CONSERVATION

EXPLORE VALUES

Project Scope

Sprint 1:

Team Formation and Project Discovery

Sprint 2:

Initial Development

Sprint 3:

Development and Testing

Sprint 4:

Validation and Delivery

WEEK 1 - WEEK 3

WEEK 4 - WEEK 6

WEEK 7 - WEEK 9

WEEK 10 - WEEK 12

THANK YOU